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 <213> Glycine max  
  
 <223> unsure at all n locations  
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 gttttttcgg ggaaattgat ttcaccgtaa taggagccaa gaaaaacaaa acagaaaaat 180  
 tccgaaccgg agaactcttt tacctgctac aaatgcattt ctctctcttt tctcacactt 240  
 tttctctgct aaactcgcaa acacgaacac tgtttctctc tctctgaaga gaagnaatga 300  
 agcttcatct tcagatctcg agctgaatca ccgat 335

<210> 10909  
 <211> 558  
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 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220127b04d1  
  
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 ttccctctga aatcccatac agtatcactg ttcaatctca ataaatatgg gaggtgaaaa 120  
 aactttgttc cttcaccttg taattctaca tctcccaata aatttattag agatatttac 180  
 gtatctactc cataaacttc gaacctctgg gaaaccaatt tcaagccatg gctttgcagg 240  
 gccactgaaa tgaataacag ctgcagcttc taatttctct ttgctaattt ctgctgattg 300  
 atggcgataa cctaaatcag tcacaagcat tgatgaactt ataggatgca cttgaccctc 360  
 aaatgtcatc aaggcagggtg gaagcactcc tggattccac attgtcatcc cggacttgag 420  
 gttaagtttc aaccattgat ggtaggtctc cgtaatgttt gttctcctcc aaagttcaag 480  
 atcaataata ttcatgccat agagccatgc aactgatca ccgtcaaagt ttgatgcaac 540

aagagatgtg aaaagttc

558

<210> 10910  
<211> 407  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220127b05a1

<400> 10910

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ctccttgcaa atatgggggc aatctgtata tggcactgtt tggacttggt cagattagaa 120  
tgtcattcat accggatctc cataacatgg catgggtttc agttgttgcc gcacttatgt 180  
cctttacata ctcatcatt ggactaggac ttggcatagc aacagtcata aaaaatggaa 240  
gaattatggg gagcttgaca ggaataccaa ctgataaaat tgctgacaaa tttaggntgg 300  
tcttccaagc actaggagac attgcctttg cctatccata ctccattctc cttcttgaga 360  
tccaggacac tctagagnct cctccaccag aaaatcaaac aatgaaa 407

<210> 10911  
<211> 533  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220127b05d1

<400> 10911

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ttaaactttt ttatatgaaa cattatataa ccatcaatct acaaactcaa atagagtaag 180  
cattactaag gggagtggca taaacaacct ttcaggcttt cagctatttt aatttggcac 240  
ttactattcc ttcaagtgc ccaaccaagc ccattacagt gaccagaaag caagcaaagc 300  
tgaatgttct aagaacaatc catttgctac tccaagctgc aattttctgc tgtacaaagt 360  
acatctctac tgggaaatat atagccaatg gccagaagtt tatggctcct aacactccta 420  
agatttggtt gaagtaaggg aaaaagattg caagaccaat ggttgagatc acataggttg 480  
ttcaaagcag aacctgaaaa gatttagctg aaaaccagga agcaaggaag ttt 533

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 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127b06a1

<400> 10912

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 cgatcaactt gctttggat cgaacatttc tttttgattt caaaaatttt ccggaaaaaa 180  
 tttgaatcta tttttatatg cgaatcaatc ctactacttc tggtcctgag gtttctgcgc 240  
 tcgaaaaaaa aaatctggga cgtatcgccc aaataatagg tccggtactt gatgtatctt 300  
 ttcccccatg taagatgcct aatatttaca acgc 334

<210> 10913  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127b06d1

<400> 10913

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 aaggaaaacc aaaagggggg cccaaaaaat ggaagaaaaa caaatggggg ggcccaaacg 120  
 gggggccaaa ccgggggaaa aaagaaaagg gcccaaaagg gggggcctgg gccccccccc 180  
 caaaaaaaaa aagccttggg taaaaaaaaa aggggggggg cttttggggg aaaaaaggaa 240  
 aaaccctttt cgggggaatt aaaaaaacg ggggcccaaa aaggggtgat cgaaaaaaaa 300  
 ccccccaaaa aagaccagga aaacaagggg gcttaaaaaa aaaaattctt aaaaaaccct 360  
 ataataccgg ggggggaaaa agggccaaga atgggaaaaa ccccaaaagg ccccctaaaa 420  
 gagaaaaaaaa gaaattcctt ttttggaac ccaaaaaaaaa tggggggggg g 471

<210> 10914  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127b07a1

<400> 10914

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gatggggagg tagtccttag aaaggggatg ggccttgcac ttagagatac tgctaattgct 180
agagatcgaa atgggtcaagt gtgcagccgc attacttgca gcagctgatt caatactcct 240
aaaggcactc aaataggttc ttgagaaaaa ggtaaattct tgaaaccttc aatccaatct 300
tctt 304

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<210> 10915

<211> 554

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127b07d1

<400> 10915

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aatattggct atgtacaaat gaccaataaa aataagttag gagcaactgt attttgtaca 120
aaagtgatga agaaaaaaat gaacagcaag aggggtacaa agaaatcagt ctccctcgtc 180
tggcctaaca ttgcaattga tgggatcatt aggatggatga tgaatttgac tgtgccactg 240
atgctttgca aatagggcac cagttcttta gctgtagcca ctgctgtatg caagccacat 300
gatacatgtg ctgcattgac aaactcccca cttcttctgc agccacatat tcctcctggc 360
aaatgctgca ttttgtatca tccttaggtt cattgcaact ctcagcttca ttgtcagagg 420
gtgaggactg gtagacaatt ttctttaagc attctgaaag tgttttctct gtttagagctg 480
tgctcacagt acccatcctc tttttcaaag ccagcaattg ctcatatgac atgttatcaa 540
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<210> 10916

<211> 185

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127b08a1



<400> 10916

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gtcaagaccc tcaccggaaa gaccatcacc cttgagagag gaaagctcta gacaccatcg 120  
acaacgtcaa ggccaagatc caggacaagg aaggaattcc cccggatcag caacgtctca 180  
tcttc 185

<210> 10917

<211> 517

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127b08d1

<400> 10917

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ttttaaaatg tttgggaaaa tccaacatcg aacatcacac agaaaatagt ttcagcttaa 120  
aacccccac gaagacgcaa caccaagtgc agagttgact cttctggat gttgtagtca 180  
gcgaggggtcc ttccatctc tagctgtttg ccagcaaaaa taaccctctg ctggtccggt 240  
gggattcctt ccttgctctg gatcttcgcc ttcacattgt caatggtgtc ggagctctcc 300  
acctcgaggg taatagtctt acccgtaagg gtcttgacga aaatttgtat accaccacga 360  
agacgcaaca ccaagtggag agttgactcc ttctggatgt ttagtcagc aagggtacgt 420  
ccgtccttga gctgcttgcc gagaaaaatc agcctctgtt ggtctggggg gataccctcc 480  
ttggtctgga acttaacctt gaccttgtca tgggtgc 517

<210> 10918

<211> 372

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127b09a1

<400> 10918

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tcatgaccat gaaagactcc atagttctat attcagcttt gggaagagga caccttggtt 120  
caaaggagga actaggtaaa ctcatactaa gccaccaccc ttcactttcc atcaccattc 180

ttttcctaac cccaccccc aaccatgaca cccccacctc cccacccgcc ttcacctgcg 240  
 acgccaccgc caaatacatc gccgcggtca ccggtccac cccctccatc acctccacc 300  
 gcatccccc gatctcgtc cccaccggtc tcccttccat ggccctcacc ttcgagctct 360  
 gccgcgccac cg 372

<210> 10919  
 <211> 494  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220127b09d1  
 <400> 10919

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 actagtgtc cctccatagt tccactaact tattcaaagc catgattgaa gatccacctt 120  
 tcgccattgc ttccgtggca ctgattttca ttttaaaaat cctctgtcta atctccttcc 180  
 ctttgtccga gtccatgagt tccatcactc ggtcccccaa ctcggtggaa ctcactaacc 240  
 cgtctttgtt ctgcttcacc gccaaaccca ccttcatttc ctccaccaag atcaccttat 300  
 tcagcttctg ctctgcgtag agaggccacg ccaccattgg cacaccttca cacaccgnt 360  
 tcaacaccga gttccaccgc cagtgaagtca cgaaccacc caccgagtca tgactcagta 420  
 tcgccgcctg tggggcccag tccctcacca ctaaccctt ntcctttgtc ctctccaaaa 480  
 acccctttgg caac 494

<210> 10920  
 <211> 122  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127b10a1  
 <400> 10920

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 tttcggtttc cgatctaata tcgatgcgat tcgccattag ccggataata gagtccctcg 120  
 gc 122

<210> 10921  
<211> 495  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127b10d1

<400> 10921

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cagtcacctg ttatttttcta caaatggcag gtttttctgc attgcttcat aattagaact 120  
gcattttttg ctgacaggat cttcgtcttt gtcactatg ttttgcttgt tattattggc 180  
gttggtccatt tgctgattct tattcttcaa agcatgagga ggtgaaaagc tttgaggcaa 240  
cacctctctg gagaatagag cctgaaaggc cagactcccc tcttcagaga cttttttcca 300  
agaatcagta agattgctaa cacttctacg acgattacta aagtgaatgg ctaattgggt 360  
agcatcaggg gggtcaggct cttccttccc tttgtcatcc ttctatagt ccatagtttt 420  
cacatcggtg ctgaggccg ggtgggaacc acatgaggaa ccgtcaaccg ggtttttgtc 480  
ctttgttttg ctgga 495

<210> 10922  
<211> 231  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127b11a1

<400> 10922

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ctccctgggc ctaaacggtt cctccaactt gagcaactcg ataccacagt gtaacgtgtg 180  
cagcataatc aagcacgggt tcaaggtcac cggatgagcc ggtatcttga c 231

<210> 10923  
<211> 536  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220127b11d1

<400> 10923

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tagtcggtgg ggcgcccttct ttagtttttt tttttttttt ttttttaaca gctaaatcta 120  
cagtcacata aataggggta ttgtgtggtt aataattgct gtagtactag aagtaatata 180  
cagtgggtga ttaagtctgc catggattgg agaggtaagt gatacccacc aacattttcca 240  
caaatgatct gagaccgatc aaatactcat atccttaaca caagaagatg ctacaacttt 300  
taaaagagct aattcacaaa acaaggaaa cgaaattaat tcaactcaca gcacatttca 360  
aaagcctcta tagattacaa caaagcaagg caatatagct ttaggggtga acacaagcaa 420  
ctcatccaaa ttagaataag ctacaacagc accggcgaca acaacagaat catactcctc 480  
catgccacct tgtgcattct tcttcaccct gcttgcctatc actctacaaa ccagca 536

<210> 10924

<211> 391

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127b12a1

<400> 10924

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gagatagcat ataactgatt tgaccacggc atcggctaag aaagccagag acttcttgcc 120  
tttctgcac cgaagtagaa gagttcctgc tgttgaggaa tatgtgctca gaggtcatcg 180  
ttttaagttg ttaattccaa aagaaacttg cagcattgct ttctcttttt ctggagtcag 240  
gtgtccaggt cgtgctgaac catattctga cgaagcaatt gctctgatga ggagaaagat 300  
aatgcaaaga gatgtagagg taaatcaatt cttttctgaa ctttagattc ctgtatgcc 360  
gcttatttaa ttggtaaata tttcttattt t 391

<210> 10925

<211> 425

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127b12d1

<400> 10925

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 agacgtctat ttataatatt acctcctgtt acacttatatt acggccacca ccggtctttc 120  
 tacgaaggag gaccagagtc ctgcttgtat gactgaatct gtacatactg tcacattcca 180  
 cacctgcacg acaccgattt atgcgggaaa ttctccaaat atatcagagc tggctgcctg 240  
 tctctattag accacctgtc tcttttcatt cacgtacaat gccctttctg ctgcatgggg 300  
 agcatthaacg ctgatttcac tatccagagc atcaagagtt acagcaagga ttgccccagt 360  
 tccctgcctt ttcactttgc ctcccgaagt atatttctcc tcaaccttgg cctgaactc 420  
 ttttc 425

<210> 10926  
 <211> 450  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220127c01a1  
 <400> 10926

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 aaaaaaatct cagatttctt cattccttcc attcaattcc aatccaaaat ggatcaacac 120  
 cacttnctcc accaccacca ctatcaccac cccaagaac accgcaatcg atacacctcc 180  
 ctcacacctc aatcccacct tcacagtcac caccacaata atcttctctc accaccgcca 240  
 aatccttctc cgcctctttc ctaccaccgc acaccgnaac cctacacccc tcttacacce 300  
 caacccaac atcaacaaca acaattcctt tataacccc tccagaccg ncctctcgaa 360  
 gaagaacccc aacctcaacg tcatatccca tacgatcttc tncctcgccg naccaccacc 420  
 ctnccttgga accctaacc taaccctaac 450

<210> 10927  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127c02a1  
 <400> 10927

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 ttctatttga gccgaggttt gagattttaga tgcaaataaa tatataccct gtcttgagcc 180  
 gagtccccctt taagccaata gcaatcaaac aaagtttcgg ttattggtgt tcatttttct 240  
 tcctccatct ttctctaaaa cattaattga actctccatt ccttaaattt taccaacgag 300  
 ctagttccga cactgacaaa gcaatggcaa agcctgagtt agaggtgact ggtgagagca 360  
 agaacaaaga actaaagcac ct 382

<210> 10928  
 <211> 391  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127c02d1  
 <400> 10928

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 cccacaaagg gggggagcac cctttttgag cttttccgc ccattttaca aaaaaggttt 120  
 tttttacagg ggttctacag gggttaataa catagtttta ccatgcctaa aaaagctaaa 180  
 aaggttgttt aggccaacc ccccctttgg ctaaaagggc ccacccccca aaacaaggtc 240  
 cttcttaagc aaattttttt gaaaaagaaa ggctgatttt aatcaaaaaa agaggccgat 300  
 tttaattttt gttcctaaaa gggggcattt tctcctttaa agggcgccct cccgggtgg 360  
 aaagcccggg gttttttttt aaggggaaaa a 391

<210> 10929  
 <211> 448  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127c03a1  
 <400> 10929

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 caaaagataa aggggactat ggaggttatg cagaagaatg agttggatat caacagcatc 120  
 accagagttg acgggatcgt cggcaccggc ttagacttct taagcagagc actcgataca 180



<210> 10932  
 <211> 376  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127c04d1

<400> 10932

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 attgttcaat aatatgggtcc atacttaaaa agatcacaaa gaaatcacia atcgctagct 120  
 gaatttataa cttgaagcgt gaattctaac atttaggcgc tagaattctt tcgacaaata 180  
 caaatcattc ctttgaatcg agcattttgt ttagagcagt aatataagcc tctacacttg 240  
 aagtaacaat atccactcct tatccgggtac cactaaatgt tggataaata acggatccat 300  
 tcaaagcagg agtaggtgac tgcttattct ctctacgaaa tacaacacgt gtagtagcaa 360  
 ttgcatcgga gcctcc 376

<210> 10933  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220127c05a1

<400> 10933

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 ttgttgcaat tggggaaggt tanagtagna gtttctttgc atgggtattgg tggaggagcc 180  
 tttggcttgt actgattcaa ttcagaagct tgagggttcag aagcacttga agaacttgaa 240  
 taggcctcct gttaggtcca tcaagagtcc tgatggagat gttattgatt gcatccatgt 300  
 tacacaccag ccagcttttg atcacctga cctcaaaaat cacaagattc agatgaaacc 360  
 taatttc 367

<210> 10934  
 <211> 521  
 <212> DNA  
 <213> Glycine max



<223> Clone ID: jC-gmf102220127c05d1

<400> 10934

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 acagggaaaa ccaatgaaga aacttgtttc ttgtaactct aagaaagaaa cccaccaccc 180  
 cttttctcca acaatttttt ggagacttca aagagactag gagcttcatt atacaccaca 240  
 aagctaaggg gtaccacaaa gttactaaaa taactacagt agatgaaaat aacacctagt 300  
 tttttttggt ggtttttttt tctttttttg tttgattaac atgaatgatc aagggcaatt 360  
 tggatttcta ccaggaccac catagtagaa gtagttaccc caatctccag cactaccagt 420  
 ttgaacattg tagcagctat cttgctcagt gtaagtgcc aaggtcttttg gagctctagc 480  
 ttgttgtcac cataacaatc tgaatgttct tgaagtaact a 521

<210> 10935

<211> 406

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127c06a1

<400> 10935

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 tatgccttca tccatagtgg acgaagaagc gaggtttgaa gccgaagagg cggaggtgca 120  
 agcatggagg aactctgaga ggttcaagct aacaaaaaga ccatacacag caagagatgt 180  
 ggagtccttc cgaggcaacc tcagacaaac ctatgcctcg aacgagatgg cgaaaaagct 240  
 ctggagcctt ctgaagaacc accaagccaa cggcacagcc tcaaagactt taggagcact 300  
 tgatcctgtt caagtcactc aaaaggccaa gcacttggac acaatctatg tctcaagggtg 360  
 gcagagctca gccacacaca ccacgagcaa cgagccgggc cctgac 406

<210> 10936

<211> 549

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127c06d1

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aaaccagatt	tctttgtgct	ccttgtccac aattgcatgt ccaaataatac actataagta 120
aaatatgttt	aacagtagga	gtaaaacaaa ttacaaaaca cagaaaaaca agttttcctt 180
gttctccttg	cccacatggc	caagagtctg aacaagtaag aaatataaga aattatgaag 240
gcaaaaatag	cagaatgatt	caatggcccg ttttaatactt caattattga ggacatttat 300
tccaaattcc	aatccaacac	agaaattggg gaattttccc caagttccac tctcggcagt 360
atagtTctgc	aaaagtagca	ctttcacatt ctggccttag caaccacaat actgcctcta 420
tcaatttcta	cagctcctgg	cctagtccat gattctttaa actgctcttc agttactcct 480
tttccattg	cagcagttga	agccacacct cctgggacag tcttgagata cctatcatag 540
tagttagca		549

<210>	10937
<211>	285
<212>	DNA
<213>	Glycine max
<223>	Clone ID: jC-gmfl02220127c07a1
<400>	10937

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ggtttttctt	caatatgaag	tactttgagg	aaaaagtaca	ggctggtgaa	tgggtagaag	180
ttgagaagta	cttaacaggg	tttaccaaag	ttgatgataa	tagatactcc	atgaaaatat	240
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<210>      10938
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<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmfl02220127c08a1

<400>      10938
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220127c09d1

<400> 10941

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 aatgtcatat ttaacattta aactacacct tttaaacaag gagctatagg ggaaaaccaa 180  
 gatacttggt tgtcacctag gacaaaaaag ctccatggct tcaactacga gtgaagattc 240  
 ctttattaaa tctgaatatac tttagaggctc acaagaccga aaccttgggg tttcaatcct 300  
 ttgggaggcc tccattttt cagctaagcc atccccttct aacatcttca atacttttga 360  
 catcttgggg cggggcgaag gattgaattg tgtacacaag agtgcaacct gaaccatttc 420  
 ttctagttca atcagatcga agttgccctt tagatctttg tctaccattt gactcaatct 480  
 tccatcct 488

<210> 10942  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220127c10a1

<400> 10942

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 aacggaggat catgtgttgc gattgctgga gcagattact gcgttatcgc cgcagatacg 180  
 agaatgtcca ccggttacia catcctcact cgcgattact ccaaaatctc ccaactggct 240  
 gagaagagtg agatggcttc atcaggcttt caagctgatg tcaaagcttt gcagaaaggt 300  
 ntgtctgcta ggcattagat ttatcagcat caacacaaca agcaaagag ttgccctgcg 360

<210> 10943  
 <211> 459  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127c10d1

<400> 10943

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aaaacccaact acgtcatttt aaattttaga agcattttcaa acatttctcaa tccaagacag 180  
gtttctccaa caacaatttc ctgtaaagca ttagtctttc cttagggcca tgtattcacg 240  
atgaatacca ctggcattta ggatgacgat ttcaacctta tctccgggggt atatatctct 300  
ctcagttgca gatgcaaaaa cagttttgac cagatcaact gcttttgctt cagacaatgg 360  
agtaacagca tcttgggcag gtaacaggag tgggctagga gacttcagct ggttatcaag 420  
aaatggcata ataagtgtgg atccagaacc ctgagagct 459

<210> 10944

<211> 352

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127c11a1

<400> 10944

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acatacaaaa atgttccac ctggcaccgt gatctttgca gggctctgtga aaacatccca 180  
atagttcttt gcggttaaaa ggttgatgtc aagaacaggc aagtgaaagc aaagcagggt 240  
actttccaca ggatgaagaa tttgcagtac tatgagattt cagctaagag caactacaat 300  
ttcgagaagc ctttctctta ttaggcctgg aaacttgcaa gtgaccta tt 352

<210> 10945

<211> 456

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127c11d1

<400> 10945

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 aaagaacccc aaaattttgt cgaaacaacc aaaatcctca tctttttaac gcccatgggtt 180  
 gatattattaa actgagggttt taaatttaag caacaaatct ggatgataat tgattcagat 240  
 cctcgaattc gcatccaaaa atgtcaacac tacaaccccc aacagcacat acagtagcat 300  
 acaaatacca gcgcactcag aaaaacagcc ctctactcaa aagattcatc atcatcgtca 360  
 gggaggggct gactagcagc tgcaagaagc tcagcctcgt gctgttgctg tgcagctaaa 420  
 tcaatttgaa cttctgggtgg agccaatgca ggagat 456

<210> 10946  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127c12a1  
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 taggggcatg tcagaaacct cttccacttc ttctgagagc acccaacaag aacaaccaac 180  
 ttctgataat gcttcttcag agacaattgc tctctcccct aacttcaagc cccctgagcc 240  
 taaacgcttt gcaattaggc ctgataagac cagagaagag ttaggagctt tgcttccttt 300  
 gatctttcgt ttgcccactg gagttttcgt ttctgggtat tctttttcaa ttgtttctaa 360  
 ggatgaaatt cctacagacg aatatgc 387

<210> 10947  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127c12d1  
 <400> 10947

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 gttagagctt aaaaccatta tcaattacat ttacaaaagg aaatgaagg gcatatcatg 120

agacttaaaa acccttaca ggctttccc tattatagca tcacttacta aagagcgat 180  
gttgctcata aatactctat gatttctgca ctttcaaaca tttctatccc agtggttgga 240  
tcttccaaaa aaggtgctg gaaaggtcca gttttctgat aaagaatatg tctttttggg 300  
ctacccttag cacaactgac aagcaagggg ggcagctcca attccacaag tacttcacgt 360  
acaagtttgc agaaaggaga cccctcatat gcccataatt taagaggctt tggagggaac 420  
t 421

<210> 10948  
<211> 377  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220127d01a1  
<400> 10948

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aagggaaatt gccaaagcgt tgacactgca actctagtga ttcagcaacc caatgggaaa 180  
gtagaaaggt tgtattggcc tgtaagtgt agtgaagtga tgaagaccaa ccctgatcac 240  
tatgttgctc ttcttatctc caccacattg agctcatcca aagacaatga aaatcgctca 300  
aataagcgtg acaacaccaa caccaccaac cctgttcgcc ttaccgcgat caagcttctc 360  
aagccaacag atacctt 377

<210> 10949  
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<212> DNA  
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<223> Clone ID: jC-gmf102220127d01d1  
<400> 10949

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acacaattat tatgcatgaa cccagttgtt caaccgaagg gaattttatc atctctcagt 120  
tttttttcag gctttcctga atgtactata tatttaattc aattttaatt tccacagatc 180  
taagcaatca tggagcgggg attaa 205

<210> 10950  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127d02a1

<400> 10950

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 caagaaagta tccccagcca tttccttttt ctctttatga tttgttggag caaagtctac 180  
 ccctgtataa tatgctacga cgccatgtga agaaaaagtc atctcttctg agccctcctt 240  
 tacctaattcc tgatcttcct gttcctgcaa ac 272

<210> 10951  
 <211> 463  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127d02d1

<400> 10951

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 cttccccccc aaaaaaactg agagaaaaag gtcttcttca ctattttatt aattaatacg 180  
 agagggaaaa atgcttccat atatgtagct tttagtaatg tacagcagca atttcctctc 240  
 acttccaact gcagtctttc aagtcttaag ataggttggg ataggtacac cagactgttc 300  
 tgtcaacttt ttataagcag cttgcaacct tctagtact ggtcctactt ctccattgcc 360  
 aattatgcga ccataaacct tcaactacggg gcttagttct cccattgttc cagtcgtcca 420  
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<210> 10952  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127d03a1





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 ccaacaggac cctcaccaac tgggtcagac agcactctcc ctctccctga accgcacca 240  
 agccaccaa accttcgagg ctaactgcaa caaattcaga ggctgaaac ccagagagca 300  
 cgctgcactc aaagactgcg ccgaggaaat cagcgacagc gttgacc 347

<210> 10955  
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 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127d04d1  
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 gtgcagcata gtggttaata agcgagagag cattgctagt aacctgagca acattgagca 180  
 tcctagccct aatagagtcc ttgatcttcc cattcagcgc cttcccggag aatccatcgc 240  
 cgcaagtgct ctcacgggtc aaagcagaac tgacccatgt ctccacgttg ctaatgtgcc 300  
 acgtgaagtc ctcaccctta accttacata gcttgagctc cttcagcgac cggctgaggc 360  
 ggtcaacgct gtcgctgatt tcctcggcgc agtccttgag tgcagcgtgc tctctgggtt 420  
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<210> 10956  
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 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
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 gccataatga tgaccaagct tgagtctctg aaaaggccac tggcaattct ctgcagagta 180  
 atggatttgg tcagactgag agggacaatt taagggaat cagggttaatt gcacctggaa 240  
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**0937**

<400> 10959

<210>	10960
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<212>	DNA
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<400>	10960
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5024

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<400> 10961

<210>	10962
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<212>	DNA
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<400>	10962
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<210>	10963
<211>	348
<212>	DNA
<213>	Glycine max

<223> Clone ID: jC-gmfl02220127d09a1

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 gattttcttc accgagcgaa agcggagcgc ctccgcagcc accacgacaa gtacctcttc 180  
 gcggaggagg acgaggagtc ggagacgcaa gaccgcaacg gtcctccaa aagcgcacgg 240  
 aggacggttag aatacgtggc cgaatacgac aacataattc gcctgaagag ctgntacagc 300  
 aagtacctca ccggttccaa ccacctcttc ctcttgggca tgacgggc 348

<210> 10964  
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 <212> DNA  
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<223> Clone ID: jC-gmf102220127d09d1

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 ccggaatcca catgcaacac atgcttatat tgaagctgga gttaatgaaa aagaagcccc 180  
 aacaaaatcc accatcagaa tcgcctataa cacatgtcat tgatgaaagg acattgctgt 240  
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 ataaatgaaa tggactagaa catattccta aattctgaac tggcttcgat cagtacataa 360  
 ctacatatac gtaggctttc gttgcaaaac tctaaaggct tctcacagta agccttgctc 420  
 ctcaaagtct cttgccactg aaaaggaaaa gacagcaaat gttattaagg taacaagata 480  
 ggacatttga ggagaggaag atatagattg gaacaaacag aaatatgatt gatgtcta 538

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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127d10a1

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agctgttgta ggtgataatg cctttctcca tgaaagaggc gttcaccagg ctggattggt 180  
 aaagcataga ggtacatatg aaatattgtc tcccgaagat attggccatg aaaagtccaa 240  
 tggagttaat atggtactag ggaatctaag tggacgccaa gctttgaaaa gtcgact 297

<210> 10966  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127d10d1  
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 ttaaaaagat aacaaagaaa tcacaaatag caagctgaat ttataacttg aagtgtgaat 180  
 tctaacattt aggtgctaga attctttcga caaatacaaa tcattccttt gaatcgagca 240  
 ttttgtttag tgcagtaata taagcctcta cacttgaagt aacaatatcc actccttctc 300  
 cggtagcact aaatgttgga taaataacgt ttccattcaa agcaggagta ggtgactgct 360  
 tattctctct acgaattaca acacgtgtag tagcaattgc atcggtgcct cctgtaactg 420  
 tacttggtga gtattcaagt acttttacgg tttccttcac tatgagatta atagccttgt 480  
 aagctgaatc tactggctct acaccaacag aacaagcaac atgtgtgcta ccatcactaa 540  
 gaacaagttt g 551

<210> 10967  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127d11a1  
 <400> 10967

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 atggaagaag ctgtgcaagc tgcaaaatca gctgcagctg cagctgcaga tgtggcaaaa 180  
 gcgagccaag aaatgctggc ttcaaaaggc gaagagatgg agatactttg aggaagttga 240

gagcctttta gataagcaag tacaagaaat gaagtcaatg accaatgcc a t 291

<210> 10968  
<211> 422  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127d11d1

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tgggggggaca agcttattcc aaaaaatgtt tttcaagaaa aaacatgcgg gattcacctt 180  
catttcacaaa aaaattggac tccaggcccc ccttggttct cactaaaagg gggaaccgag 240  
ctgacactgt ttcccttaac tggcccttta aattccaaaa gtttgggggc cctatgtccc 300  
acatcggaac ccgttaaaga aggggcccct ggctgggttat aaaacatttg gtccttttgg 360  
gccgctggct ttggccccct gattggttct gcagcccccg ggataacttt gggggggggg 420  
tg 422

<210> 10969  
<211> 394  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127d12a1

<400> 10969

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aatctgataa gggatctgcc tctgaaagaa gtgtgaagtc taaggctatt cttgcaagac 180  
aagctaattgg agtagttcct gatccgggag tccgtgctgc atcagatggt gaaaaaattg 240  
taccatctgg aaacactggt ggatcaagta gggagcatct catcgatttt tggaggatgt 300  
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<210> 10970



<211> 414  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127d12d1

<400> 10970

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taaaaaatgc ccatgctata tgagaagaaa aggtgaacgc aaggaaagaa agcagtggcc 180  
aacattcaac accatttttag ctagatagag taatttcatg cagtccagct ccgagaggca 240  
gaattctaaa tcccgaagt tgcagtgtaa tcaaataaat aaaatgcctt gagttaaaact 300  
acttcacca atgagctcat tcgcccatag ctcatgcac taccatggga taaaaacctg 360  
acatgaatgg ccttccgctt ccattggaat ctgcattggc atgcaatggg gatt 414

<210> 10971  
<211> 395  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127e01a1

<400> 10971

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gacagagttc cttggattat ctctttggca gaggggtacc tgctgcagt gcaaattggag 180  
ctcgactca aaatgcaaga gctccttcac caccggttga taagcaaagt ccagcaccag 240  
caccagcacc agcacctgca cctgcagcag cagcagcacc agcacctgca ccagcaccag 300  
caccagcacc agctgataag caaattccag ctggaattcc tggaagtctc aaaaacaatt 360  
accatcgcg tgatgggcaa aactgtggca acttt 395

<210> 10972  
<211> 283  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127e01d1



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 acgccccccc cggacctcgg gttccaaaac acccggacag gggggccaaac acccaacctc 300  
 ccctaataaa aaaaagcggg gggggccccc ccgagaaaag accccccccc ccccaaaagg 360  
 aggggcgaaa aaagggggg 379

<210> 10975  
 <211> 373  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127e03a1  
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 aggaaaggaa gaccaaaact atggatatctc agaaacttct gattgtgcaa gaagttctca 180  
 atgttcaaag caggatgtaa cagaagtaaa caaaccaaca tctccactgt catccccctc 240  
 gcactcttcc cccactaaga aaattgaaga gctaagtgtt acagaggtat ctggtcggcc 300  
 aagtcctgta tctgttcttg ataccctatt cttagaggat gatatcaacc ctggctactc 360  
 cagatttcaa ccg 373

<210> 10976  
 <211> 407  
 <212> DNA  
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 <223> Clone ID: jC-gmf102220127e03d1  
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 aacttttgct attgtaaaca aaacaagcat catttgact ttaacaaaaa gcagttgcaa 180  
 cgggcttctt atttacttat tgggacttg gggcccttat ttgagtatcc tcaactccca 240  
 tgaaaggttt taactactgga aaagtcaggc ctgatcaaag agaaatgttt tgctaccaa 300  
 tttgctttaa aaaaaagcct acaagtcctc aggatttttt acttcccttc cacctttcaa 360

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407

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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220127e04a1

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tgccatcaac cggcagccat gtacagaaac gctgcttcac gtcttaaggc catcaaagcc 180  
cgttcgtgca gcagcagcag caggggtacct gccagtgcc a gattagcaag ttccggttgcc 240  
acgcaacaat cctcttcttc tgggttaggga ggtttattag gatgggtcac tggagaccga 300  
accagttctt taccatctct ggggtttcca tcttcaggcg ttacacttnc ccctccattg 360  
cctgattatg ttgcgccgga gaaaactatt attactacac tccc 404

<210> 10978  
<211> 494  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220127e04d1

<400> 10978

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ctcagatcaa tgtttatgta cccagaaata atgagatgtg aaaatcacta atttattgac 120  
tacaacaagg atagtttagga agtttaactt aattttacac ctttcatccg tacaagactt 180  
gattgtttat aaagaagact caatatgatg ggtggatgaa agcaatctca ttaggcacgg 240  
aatttgagac tcaactgattc atagcttgga acatagagaa catctccata tgatgccatt 300  
gtgagaggag aacaaatgag ctttcgcgaa attgaagtga tatecttcga gggtacttca 360  
tccactgcct tcaagaaatc ctccacaggt ttccttttac catatgtcaa aatttgcctt 420  
tctatatctt ctgaaacaac catttttgat tccaaattca ataaaattgc agatttgagg 480

gcctgttttg ctcg

494

<210> 10979  
<211> 311  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220127e05a1  
  
<400> 10979

ttctgatcca tatatatcat actttcttta gtaataactt aaagaacccc acaataacac 60  
caaccatgtc cacaattgca aagagagatt tgagttctaa tgaagtagtg agtgagctga 120  
gaagaggtcc taggactcta gaagaagaca tgcttactca tacactatat tgctcgtcac 180  
ggagaaagcc gtaggtatat gttagccaaa agtgcaggat agaagaggac tggaaaaagt 240  
tgcagactta gatggctgaa ttattagaaa ccagacatta agagagggaa cctcactcca 300  
caggagcaac t 311

<210> 10980  
<211> 485  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220127e05d1  
  
<400> 10980

natggctacc acgatagcct actgcganac tncccgagcg acagctacta gccggcgggc 60  
gccctttttt tttttttttt tttttttttt ttttttcatt ttttcttat tctatattat 120  
ggggcacttt tggttttttt ccccatcttc acctctattc ctttattaaa tttttcttta 180  
ccttttcttc tctatctctg ggagaaaaaa tcccctcaaa taacaccaaa aataccacct 240  
ggtacgggga aaaaacaaac acacctcaac ccatatataa aaataatata acaggagaga 300  
ccccaaacac cccaccctta gattattcat ataaaaaaaa caatattaac aaagggactt 360  
tacaaaaaaaa accccccacc actacaaaat aattccccca aaaaaagaac ctcccccccc 420  
aaaaaaaaac ccgtacaaaa aaacacccaa aaattgcttc ttctcccaaa aacacacccc 480  
cccac 485

[illegible]

<400> 10981

<210>	10982
<211>	246
<212>	DNA
<213>	Glycine max

<400>	10982
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<210>	10983
<211>	343
<212>	DNA
<213>	Glycine max

<400> 10983

5034

ccagcataat cggcaaacc gaagcctatg agatgattgt actgaaagga tcagtaccca 180  
tagcttttgg agggaatgag cagccagcag cttatggaga ataggtttcc ataggagggtc 240  
ttaaccctag tgtaacaag gaacttagtg ctgcaattgc ttcaattctg gaaaccaa at 300  
tgtcagggcc aaagtcgagg gtcttcttga aattctatga cac 343

<210> 10984  
<211> 485  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220127e07d1

<400> 10984

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cttgcaatta agcaagttac gtttgcgctt aggctaccag aaatcccgag tgtacttata 120  
taatgatata aacatagaca taaacacggg tgaacataa tgaacactcc atccaacatt 180  
caaggtacca caaccaatgt aacatggaat tcggatttca gaatgtagat ccattccatc 240  
cgaagttgga acccttggtg tcatagaatt tcaagaagaa ccgcgacttt ggcactgaca 300  
atttggtttc cagaattgaa gcaattgcag cactaagttc cttggtttaca ctagggttaa 360  
gaccaccaat ggaaaccaat tctccataag ctgctggctg ctcatcccca ccaaaagcta 420  
tggttactga tcctttcagt acaatcatca cataggcttc gggtttgccg attatgctgg 480  
cgacg 485

<210> 10985  
<211> 259  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220127e08a1

<400> 10985

agcaagagct cttctcaaaa aagcaaaaac ataaagaaaa gagctagtca ctttctctct 60  
cctagcccg cctagccga gctagccaac ttccacactt agcagcctag cccggccggc 120  
ccagtgttga aaaactctct ctttcacatg cagacttcca ctgcctctct cttccaccac 180  
ctacagcccc tttggactga ttttcataac tgggttagag ttagagttag atttactcta 240

actgaattat ctatgtact

259

<210> 10986

<211> 412

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220127e08d1

<400> 10986

tttttttttt tttttttttt tttttttttt tttttttatt ttttttttgt tttattgggt 60  
 atttttaatt ttttttattt ttttaatttta tatatgtatt tttgttaaata ttaaataaaa 120  
 aggagaagga aaaaaaaatt tagagcataa acaaaagaaa taaaaaatTT ccaaaaaaaa 180  
 ataaaacaaa aaaaaagaag aaaaaaaaaa aaaaaaaaca aagagggggg ataaacaaaa 240  
 aaaaaaaaaa aaaaaaaggg ggcaaaaaaa aaaaaaaaaa atgaaaagag aaataaaaaa 300  
 agacaaaaaa gggcgggtggg agggaaaaaa ataaaaaaat taaagagtct taaaaaacat 360  
 aaagtgggggt taaaacaaaa aatataaaaa aaaaaaaaaa aaagacttct gg 412

<210> 10987

<211> 387

<212> DNA

<213> . Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220127e09a1

<400> 10987

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 ccagggttatc gtttctaccc cacagaagag gagctgattt cgttctatct tcacaacaag 120  
 ctagaaggag aaagggaaga catgaatcga gttattccag tcgttgatat atacgactac 180  
 aacctatctg aactcccacg taaaaatctt atatatatat atatatatatc atatatatTT 240  
 ccctcatctc cctctttctc ttttcatttt tctaattggt ttttcctttc aatcaaaatc 300  
 gagcttgact tgaaagctat ggtacaagtt gattttattgc atatatatag aagcaaagca 360  
 cattctggat aattnaaggg tacatac 387

<210> 10988



<211> 505  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220127e09d1

<400> 10988  
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 ttaaagtagt tgttctgcat gcggtgcgac atacacaatt aattaacata acctactact 120  
 tattcagtca tcggtgtagc tgagacttga gagtcaactt tgttgtagca taccaacaaa 180  
 gcacagatag attggattgg atgtgttcat ggttctgac ccaagaacat atccactttc 240  
 tcccaatcca aaaaagggtc atcgttgttg tcaacatcca tttgagtagc ttcctcacccg 300  
 tgaagagggg gttggtcatg gtctccggag gaagagctct ctgctggtga acacgttgca 360  
 cttctctcca ccattttatg atgataatca tcatatgatg ttgaaccctt ttgttgcctc 420  
 tctacatttt gagcacccga atagctttct gtgtccctcc ttggcggggg gncgtctatc 480  
 aaatgctgtc aaacactttg atttt 505

<210> 10989  
 <211> 316  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127e10a1

<400> 10989  
 ataggaactt gcagaaacat aaacatatta gatgtcttag tgaagttgag aacaatgatg 60  
 agcttcatgt ggttatgttc ccattccttg catttggtca cattaacgca tttgttcaac 120  
 tctccaacaa gttgttctct catggagttc gtatcacttt cttgtcagct gcatccaaca 180  
 ttcccagaat caaatcaact cttaatctca atccagccat caatgttatc ccactatact 240  
 tcccaaattg cataaccagc actgctgaat tgccaccaa cttggctgca aatctcatac 300  
 atgcacttga ccttac 316

<210> 10990  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127e10d1

<400> 10990

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agagaattca tgcactaact ggtcttatta taactacagt agaatctgga gaaaggagac   60
acattggaag agactagact aagaaaatgg attagtctta gtagacttta ttttacatta  120
atattggaag agaatagacc aagaaaatga gcactgacca aactagtcac acacattcac   180
acacaaaaca actaatacac gatcgaacag ttcaaatttt aaatgatagc ttatagtcca  240
agaaatccga atcctgaaca ctaagccata gacttcaact gggcaaccag atcagtgatg   300
aatttgttct gaattccttt attcaataaa aactccttcc atttcatgtg gttttctttt   360
atttgcttcc ctggctcttt atcctcctcc accatgatag tttttactgc cttcagtata  420
tcctctttct taaagtcccc atcttcactc ctattcacct ctatccctgc ctccaaagcc   480
ttggctatga gcttagcatt gaaaaactgg tcagccttga aaggcaacag caccagttca   540
caatcact                                     548

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<210> 10991

<211> 292

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127e11a1

<400> 10991

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gggatttcgt tagctggaag ctcttgaaag tagatataaa agtgaatcta caaaagatga   60
agatgaagag gatgatatgt atgtcctttc aacaagcaac cagcgagtat ctgttcaact  120
tttgggtaaa gataaagttt atgataagct aagttgattt gagaagttaa ccagtgtatc   180
attgtcatat atgggcatta gttcccctgg aatcccatct cacattaata atacagtgcc   240
aagtaagctt gattctagaa cacttccatt tctttgctaa tatcaagatg aa          292

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<210> 10992

<211> 447

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127e11d1

<400> 10992

aacatggtgc atcaaaaccc ctgataagac ctggaactgg agcccaacaa aatgcttaca 60  
aatttattat ttttagagtc cttcttccaa gagtgatggg cgctaattag aacaagatac 120  
attcttcac acaagagaag atttatcaca agttttctgg ggtatttatg aactttgttt 180  
atctacaagg ataattgaat catcgccgaa tccaagggtc cataatagat gaagtgtcat 240  
tgtcatgcac caggggaaat ggaaaaccct cttctggaag atataatttt agcttcacatg 300  
acttcagcat aaaaaagctt tcgcagagaa atttcagctt accaactggt gttgtcgtg 360  
agaacttctt tggcaatgat ggcttctcac ccatggatgc tccaacacaa ttcagagcaa 420  
ttgacaataa tcctgagctg attgttt 447

<210> 10993  
<211> 276  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220127e12a1  
<400> 10993

cagtctctct ctcaccaaac tgataaaacg cggaattgaa accaaccctt atttaagtct 60  
cacaccttac ttagctacct tctttctttt tcaccagtcg caccattat tcattagcat 120  
catcgttcac tcgcatcaga atcacaggtt cagtttctga ggattgttag aaaaaatttc 180  
ctttaagttg aaacttggag tgccggctca agatattatg atgaatggaa aaggtactca 240  
gactgagtat aggggcgaaa gttcgggttc aacttc 276

<210> 10994  
<211> 432  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220127e12d1  
<400> 10994

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ctaagggaaa agcaaagat tggcaagggt caaacagttt taaaaatta cgacaaccaa 120  
ctcatgaatt ggttgcttta cacagcaatg attaaaataa tggactgttc ttccccacta 180  
aaagggcgta attcatattt aaaaaaaaaa atcatcacat gtgtactgta aagaatatcc 240

aggaaaaaca aaaacatacg agtgatttct ttccctccag ggacctctc ttttatgtgt 300  
 aggaaaaaga tggccacaac ctactggatc attaatactt tggcaaatac aattttcaac 360  
 gtgcaattta gcagctagcc ctactgaat aagaaatagc tactttgtgt tcataaagga 420  
 tgaggaatgt tt 432

<210> 10995  
 <211> 392  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127f01a1

<400> 10995

aggtagcgga gatcctagca ctctcttctg cagctttcgc cgacagcttc attcaccatg 60  
 gctgagcaaa ccgagaaggc ttttttgaaa caacaaaag tgtttctcag ctgaagaaa 120  
 actgggaagg gaaagagacc cggaaaggga gggaaccgct tttggaatc cattgggctt 180  
 ggatttaaga ctcccaggga agccatcgaa ggaacctaca ttgacaagaa gtgccccctc 240  
 actggcaatg tttccatccg aggccgtatc ttggctggaa catgtcacag agctaagatg 300  
 aacaggacta ttattggtag gaggaattat ctccatttta tcaagaagta ccagaggtag 360  
 gagaaaaggc actccaacat tctgctcat at 392

<210> 10996  
 <211> 62  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127f02a1

<400> 10996

ctgaagccca tgattctagt aacaccattt caaatgatat gggaagtaac tctagcaatt 60  
 tt 62

<210> 10997  
 <211> 542  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127f02d1

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[illegible]

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**0** **9** **8** **7** **6** **5** **4** **3** **2** **1**

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<400> 10999

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 caccgtctaa acaaactagg tttgtttgaa aatgttgatg acttttgaaa aggggtttatc 180  
 tgaaggcttg ctgggtcatca caacgagtag ctcgcaaatt cactattgcc atcacaatgt 240  
 caataattaa gctaccaatt aaacccaact gtgaaacaaa caacttcagg aacacaagag 300  
 ttcttcattg cagattattc tacttcagcc aaatagtcgt caatttcagc tgggtgtcaat 360  
 accctgaact ttttatcagc tccaattatg ccaatttcaa tgttttttcc tgagatctgt 420  
 ccctcaaacc cttccttcag agtcaatatt gctgtgtgga ctgcatcatc aagctccata 480  
 tcattctgtgt accctcttctc agaaacgtct ttgcattaga acatttttcc c 531

<210> 11000

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220127f04a1

<400> 11000

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 ttgcctcaag tgaagattca gatgtgagag aagctgcctt tcgaggcctt ctccagcttg 120  
 ctcacaatgc gaatgatggc aaggatggca atgagaaaga cagagcgaac ataaagcaac 180  
 ttcttcaaga acgaataaac aacatcagtt taatgtcagc tgaggacctt ggagtagtca 240  
 gggaggagag gcaacttgag gactccctga ggagaacttg cttcaacgag ccgtcttctc 300  
 ttcgagagaa aggtcttcta gtgcttccgg ggganagacg agccccctnc agatgttgct 360  
 agcaaatatt ttgagcc 377

<210> 11001

<211> 474

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127f04d1



caatcactaa tttattgact acaacaagga tagttaggga agtttaactt aattttacac 240  
ctttcagccg tacaagactt gattgtatac aaagaagact caatatgatg gatggaaaca 300  
atctcattag gaacggaact tgaggctcac tgattcatag cttggaacat agagaacatc 360  
tccatatgat gccattgtga gaggggaaga aatgagtttt tgcgaaattg aagtgatatc 420  
ctttgaggtt acttcatcca ctgccttcaa gaaatcctcc acagggtttcc tctcaccata 480  
tgtcaaaatt tgtcttcccta tatcttctga aacaaccatt cttga 525

<210> 11004  
<211> 352  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220127f06a1  
<400> 11004

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agtgccaaag catgttaggg agatgcaaga agcactagct cgaagacaag aagctgaaga 120  
aaggaagaaa agagaagagg aggaaagggtt aaggaaggag gaagaggagc gacgtaagca 180  
agaggaactt gagagacaag cagaagaagc tagacgtaga atgaaggaaa gagaaatgga 240  
aaaactccag aaaaaaaagc aagaaggtaa actgttaact gagaagcaga aagaagaagc 300  
ccgtcgtcta gaggcaatga agaagcagat tctcaataac acagggggca tg 352

<210> 11005  
<211> 422  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220127f06d1  
<400> 11005

caggttccac gtggcttatt gaacctttgc cattaatacc aattttccata accaaatgct 60  
tggtaggaaa caccaaaagg atacatagcc cgcgaaaaat aaagtgcctc tcagctacaa 120  
atggaaaaaa tttgtacaat aatacactag gaaacaaaa gtgaacaact ttttagtcaa 180  
atcaattact tccgtaaaat tttgcttttc ctactgaat tgcatttaga acccttattt 240  
gcttccatgt atgccacaga tatgtatata tggggtagta attcacaatt ttgaccttgc 300



ctgtttccct ttcgcacct tttttacctg cgcttctcag ctgacaaaga attggagttt 360  
 cgtctgttaa gttacttttg ccttttcctg acacagccat ctatctgaat cattgcatca 420  
 tc 422

<210> 11006  
 <211> 315  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127f07a1

<400> 11006

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 gcattcgaag gttgagtggc gaagaatcgc aaacacttta ctctctctc agagcagagc 120  
 agcgtccact ccatgagatc ctctcccaat tcaactccgc aatcccttcc tctcgccatt 180  
 tcactctctc ttcctatctc ctcatcctat tgcaggacaa taaggcgctc agcaccactg 240  
 atcgggtaat agcttttgct ctgctagtag aagcttattc atcccagaaa ccggcttcaa 300  
 atcccttcat aagct 315

<210> 11007  
 <211> 405  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127f07d1

<400> 11007

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 tataaccggt tacaattaaa tgcaaatgac atgctataat cttgatttat tggccacaat 120  
 tagaaaatga gtacataacg ctacctagct ctagggagat acatatctac agaaagtctt 180  
 gaaataggac agcaaagagg agaaaattga cagactaaaa caacaatcat tccaatgact 240  
 tgagcagcct aaataacgca gctgcctttc taatacgtga aaactcgatg caaaacgctt 300  
 gaacttcaat gaagagaact ttaacattaa taatattggt ccgaatgaga ctttgcaaaa 360  
 aaacacagac aagtcttaca agcctggtct gcatggattt atcct 405

<210> 11008

<211> 232  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127f08a1

<400> 11008

gtaactgtta caggtagatt cggatactga gagttttctg cttcctggat tgcccatgt 60  
attgaagatg acgcgtttgc agttaccgga ttggcttaga gcaccgacag gttatactta 120  
tttcatgaac atgatgaaag actcggagag aaagagctat ggatcgctgt taatactttt 180  
tatgagcttg atggagatta tgaggagcat tacatgaaag ccatgggaac tt 232

<210> 11009  
<211> 383  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127f08d1

<400> 11009

ggggaaaagc caaaaaacaa aaatttcccc aattttgggg cccctataa ccccggtccc 60  
cgaaagaagg gccccgggc aaaatctttc aaaatatggg gccccccccc ttttttttaa 120  
cccaaacctt accaaccttt aaaatttttt ttttttaaag ggggaccaa ttccggggga 180  
caaacctttt attttcccc ctttttttga agggggggtg cccctatta aaaaaaacg 240  
ggccttttcc cgaaatgaga ggaaattccc ccaaagggg gcccaacttt tggggggggc 300  
ccttcccagt ttgggggacc tccaccccg gaacagtttt ttaaaaatgg tggaaaaaga 360  
ccccccccc caaaaagggtt ttt 383

<210> 11010  
<211> 383  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220127f09a1

<400> 11010

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gcctccttgc cagaagttaa aatggcccaa gaaactttcc tattcacatc tgaatcagag 120

aacgaggggc accctgacaa gctctgagac cagatctccg atgctgagct cgatgcatgc 180  
taggagcaag accctgacag caaggtagcc tgtgaaacct gcaccatgac caacatggcg 240  
atggtttttcg gagagatcac aaccaaagcc aacgaggact atgagaagat tgagcgagac 300  
acatgcagga acataggntt agtctctgaa gatgtaggtc ttgatgctga caactgcaag 360  
gtcctcagca acattgagca aca 383

<210> 11011  
<211> 521  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127f09d1

<400> 11011

agtaaaattg tatactctct ataatttgag attattacat atttctagca taaatcttga 60  
gagaacattt ttttttgttt catcatataa aatataatg ttctgaaaga acacatacaa 120  
gtacacaaaa aaaaggggga aattcataaa aaaatacaga aaaaaaaaaa cagaattgag 180  
taagagggaa ggaacatag agaaaatttt agcaatcaga taataagaag ccagtagtag 240  
tgcaaaagtc ccttgccaag agtggttgaa ccccttttag ttaagcaggt accttctccc 300  
ccttgagtgg cttcaccact tcccatgtga agtcagggtc atctctgcca aagtgtccat 360  
atgcagcagt cttcaagaac ctgccatttc caccctctt gagatcaagg ttgatggaga 420  
tcatgccagg cctgaagtca aaactctcct tcacaatgct gaggatttcc ttgtcaggga 480  
tcttcccagt gccataagt tcaacaaaca cagacaaggg c 521

<210> 11012  
<211> 314  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220127f10a1

<400> 11012

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agatcccaaa aactactttt tcattccatt tctcgtcctt ccttctcacc atctcccaca 120



<210> 11015  
 <211> 280  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127f12a1

<400> 11015

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 taaaggccag aggaaagcca ctggttcttc tgtcacttct gttaatcctt ctaacaatca 180  
 gagtatagct caagagaccg aagcaacttt gcaagatttt gaggaggggt tgcgtgcttg 240  
 cagagaagca gctaagacat ggatgactat accggcacccg 280

<210> 11016  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127f12d1

<400> 11016

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 ttctttgaaa ctgacatgca tagggggcca atcttacctt acacctagta ttgaaaaaca 120  
 acacttgcaa ccctcaagtt tccccactaa cattcgtggc tatttttaac gaccctctaa 180  
 actgtaaaat ctcatatttt tatgcaacct gaccttccta aaaagatttt taccctaaaga 240  
 ttatcccctt atcaaacggg ggcgaactgc cacaatgcaa tggaacttgc aaccgccctt 300  
 tttttgggt 309

<210> 11017  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220127g01a1

<400> 11017

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aagaacttag attagttttg tatcactttt ctcaaccgag gaagccctag tataatatca 120  
 ctgtaaactg tatggagttt ctctgaatac acttgcgntt atttatgatg agagttcttg 180  
 aaactacttg ctattgaata ttattagttt tcttgttttt cctatcttag aaaagctttc 240  
 t 241

<210> 11018  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220127g02a1

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 gaaatcatgg gcatattcag atgagggggc ttgtttttct atgtgctcct tttgtttaga 180  
 acctgcctgg ccaaagatca acatgttagt cagatatatc ctggcttcag tgcattctag 240  
 ccagatagga gcgaccataa aggttttttc ttgctatcca acagctcggc gttcgcttta 300  
 gggttcttca ccaactctaga tgtttcatcg nttgttctag ttggcatgca cttaaagcagc 360  
 taaaaagtag gnttggactg ccaacagagg cttacttggg gggacttctg ataatttgtg 420  
 cttgaccgng atgggaatgc a 441

<210> 11019  
 <211> 423  
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 <213> Glycine max

<223> Clone ID: jC-gmfl02220127g02d1

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 ctaaaaaaac taccgccggc ccaagaaaaa gtttcccccc tccccattt catgaaagct 180  
 gaataagccc cccattggga taatgggggg ggatcagggt ccgggcacaa accatcaagc 240

atttgggctt ccttagtcat gggagggccc aaactcacct tattttgttt gccccaaaaa 300  
 gcaactttta aagcagcccc aaccctttta ttcttttaaa aaaaaattat ttttgaaca 360  
 agaacccttt ttaggttccc ttcttccatc attttgaaca cataaaaagg aaaaagcgcc 420  
 ttt 423

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 <211> 242  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127g03a1

<400> 11020

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 gctttatcat agtacgttct atttatattt tcagtaatga tattgatgaa atttgggtatt 180  
 tttttattta ttattattat atataatata atttttttta atatattttt ttttaatttt 240  
 tg 242

<210> 11021  
 <211> 180  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127g03d1

<400> 11021

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 cccaaagcta gtaaacaat tttttaattt atttacctga ataaaatcat gggaaagaat 120  
 tttttaaccc aacctggggg aatttaaact gcgatcatga atataaaagt tggtcactgg 180

<210> 11022  
 <211> 409  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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<400> 11022





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aatcatttga tctatggaca gcatcggtga ggtaaagagc cgaatgccag aggaatcatt 180  
accgcagggc atagaggggg aggtcataag cgtctatacc gtaaaattga ttttcgacgg 240  
aatgaaaaaa acatatatgg tagaatcgta accatagaat atgaccctaa tcgaaatgca 300  
tacatttgtc tcatacacta tggggatgga gagaaaaaat atattttaca cc 352

<210> 11025  
<211> 234  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127g06a1

<400> 11025

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tcagttccca acaaaccat cgctctcgtc gacgatttcc tcacactagt ttaaacctct 120  
ctcccactct ccgccccaaa actcactatt ctccaggctc cgcagaatcg ctcacaaagg 180  
taaaaaatat atatacgtag ccgctaattt tctgcatttg ctttgaattc agct 234

<210> 11026  
<211> 454  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127g06d1

<400> 11026

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aatccccccc ctttccttta aataaaaaaa aatctcccca aaaaaaaat tttaaagtgt 180  
ttttttcccg gaaaaaaaaa aattttcggt ttggaccccc catatattta cccccccccc 240  
cttttggggc gcctgggggc ttttttaaaa aaaaaaccct cccccgggg aggcacaccc 300  
tacacacctg ggggggatta aaaaactcct tgcaaaaaaa aaaccgggg aaaaaaaacc 360  
cccttccttt tttaaaaaac atggcccctc cttgggggaa tagttttccc aaagggggaa 420  
aacccttac cgcaaaagtc ggtttttttt cccc 454

	1970	1980	1990	2000	2006
Population	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
GDP (constant prices)	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Per capita GDP	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Unemployment rate	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Inflation rate	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Interest rate	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Exchange rate	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Government expenditure	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Private consumption	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Investment	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Savings	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Current account balance	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Trade balance	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Balance of payments	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Foreign direct investment	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Official development assistance	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net international reserves	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Public debt	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Private debt	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Total debt	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Government revenue	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Corporate taxes	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Personal income taxes	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Social security contributions	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Other taxes	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Subsidies	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Grants	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Donations	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Exports	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Imports	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net exports	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net imports	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net capital flows	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net financial flows	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net current transfers	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net primary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net secondary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net tertiary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quaternary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quinary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quaternary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quinary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quaternary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quinary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quaternary income	10,000,000	10,000,000	10,000,000	10,000,000	10,000,000
Net quinary income	10,000,000	10,00			

<400> 11027

<210>	11028
<211>	227
<212>	DNA
<213>	Glycine max

<400>	11028
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<210>	11029
<211>	257
<212>	DNA
<213>	Glycine max

<400> 11029

5054

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 cttccacttc agccattacc aatctcgccc cacatcccag aggaggggca gagaagcagc 240  
 ttaaccagga agagaag 257

<210> 11030  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127g08d1

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 acactttaaa cttcaatttt tctataaaca taggacttaa aaacatccca acctcaggaa 180  
 cattaatcag ggcatgaagg gctctaattc tgggattaaa aaaaaaaaag acagcccaaa 240  
 gggggaaaact ttaagagggg ggggtgctgt taatacaaaa aatggtcacc ttttagggtc 300  
 cggcaaaaac aacgaacggg gtcttttttt tgctccgggc tttttttata tgctaccttt 360  
 attattaatt aaaggccgc aataaaaagc ttgttcccc 400

<210> 11031  
 <211> 271  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127g09a1

<400> 11031

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 gtaaaaaaca gccttgttta gtacctctca acaagttgtc ttaaataata ctgaagatat 120  
 gtcggcaaca attctggcac cacctaaact agacagacat aaagattctg cagctctgga 180  
 cttccatctc cattgagaaa accataactg tattgctgac aacatgaagc atcagctgcc 240  
 acctgatcat gaagctgaat ctataaagaa a 271

<210> 11032  
 <211> 494

<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127g09d1

<400> 11032

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cattaacaca acacacagaa taattcccaa attctacatg aagactcctc aacctttttt 180  
cgcatatccc catcattatg ccattgtggc caatgctctg aatcagctat ctgttggttg 240  
ctcacttgca ttttcgtag aggtctgtcg cacaattgt ccacgaaatc gaggtcgttg 300  
ttcagcta at ctctttctgc tctgatatcg aaccttttta tgaaagcacc tctcccttct 360  
ctcttttctc ttttggcgaa atttagttaa ggccacttcc ctttgagaag tcttggtttg 420  
atctactctg ttggcacttc cacttcact agcatcacca ctgccactat tcccagtgag 480  
tccattggtg cttt 494

<210> 11033  
<211> 320  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127g10a1

<400> 11033

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atcatccctt gacacctctc ttctaaaaa tacgctcttg cccagtgaca ggcagacagc 120  
agagctaggt gctaaaaggt cgaagatgta tatgaacca acccaa atga aataaacgcc 180  
gtttttgtgt tcaggcaatt ggaatttgc accccatttg gcaagtagaa ttttttccac 240  
aaagaa atga caaattccgc tggttccaaa gttctgaatg acaatgcaac aagcacattt 300  
ttaattccta cttctgaata 320

<210> 11034  
<211> 482  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127g10d1

<400> 11034

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 gaattgatac aagcaaggac aatgcttgca ggattctaaa gtctatagtt tttcatctat 180  
 ctaactgtga cacaagatat ttatctagct tgaaaccaga catctcagct tccttgcaga 240  
 gctctttgca ctttgctatc ctcccagagg ccatgtagat atgaagcatg tccttgtaca 300  
 agccaaaaga gggagaaaat ccaccctctt taagttttga aaaatatctc gtggccctag 360  
 atagatcatt caaagcaaca aacagtttta ttaccacgca ataagctgga aggtcaaaaa 420  
 gacaatttga agactccatt tcccaaacta cagccaaggc ctttttggtt ttttttttg 480  
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<210> 11035

<211> 400

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220127g11a1

<400> 11035

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 gtgaccact ccacacaacc atcattgaca ccttctcatc ctctcttaa gaagaagagt 180  
 ctttcttgag cctcgtcact attactagca tattagaaaa gtcttttctt cttcggtttt 240  
 aggttagaat tagaacattt tcacttagtt ggattagtag tacttgtgaa aaacttgtaa 300  
 cgagaaattg gagaagctaa gcagaaatgc ttctgctaga tggtaagcgt tctcctgtaa 360  
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<210> 11036

<211> 408

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220127g11d1

<400> 11036

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 tactactaat ccaactaagt gaaaatgttc taattacaac caaaagccga agaagaaaag 180  
 acttttacia tatgcttgta atagtgcga ggcacaagaa agactcttct ttttaagagg 240  
 aggatgagaa ggtgtcaatg atggttggtt ggagtgggtc actcaagggg gtggcccaat 300  
 tgttgagcgg gcccttgccg gtggcgccgg cttggactgc aaagcccaaa aagcccacca 360  
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<210> 11037

<211> 331

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127g12a1

<400> 11037

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 tatggcttag ctcaagcgcc caaatacacg gtctcggaac cccttctctc cgaaccctat 120  
 ttttaggtca gaggctaaat accaaggccg cctttatcaa gctcaagtcc acacctagaa 180  
 gactccgccc tctcagagtg gctaatagaa aagtcgcccgg tatcgattag ggaaccacca 240  
 actccgcccga ggctgccatg gaaagcggca tgcccactat catcaccaac gccgagggcc 300  
 agagaaccac gccctccggc gaggcctaca c 331

<210> 11038

<211> 526

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127g12d1

<400> 11038

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 aaaattatta agaatttgga acagaagaaa acatataatg ggggaaaaaa tactaacata 120  
 tacctctcta ttggtaataa ctagtgcct gctcatttag agtcagtga atctgcatca 180

atgacatcac cgtcgggtcc cttgcctgag gattctgagg ggccagagtc ggcaccgggt 240  
 ggtggtggtg gccctcctgc gcctgcagct cctgggttgg tgtaaaggga ctgaccaagc 300  
 tgcattgactt cctgatttag tgcagccatg gcattcctga tagcttgggt tgaacccccca 360  
 gaaatggcgt ctttaagctc tcctagtttt gcttcaacct tctctttcac agggccagga 420  
 acctgtgttc caagctcttt caattgcttt tctgtctggg ataccacaga gtctgcctgt 480  
 ttctttgtgt caatagcatc cctcttctct ttgtcttctc tcgaaa 526

<210> 11039  
 <211> 367  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127h01a1

<400> 11039

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 ccaacatcca cgaaatcgct ctcaagacca ttccttcggc cacgaagatc gagatcaagc 180  
 gcgtccttca atccctctac ggcttcgatg tcgataaggt ccgaacgctc aacatggagg 240  
 gcaagaagaa gaagcgtgga ggcttggtga ttgcaaaacc cgactacaaa aaagcctacg 300  
 tcacctcaa aacctctctc tccatttccc cggatctcta cccgatccga atcatcgatg 360  
 aggacaa 367

<210> 11040  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127h02d1

<400> 11040

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 tacaccagat acaaattttt caagacgtat gatattgcaa atgacttaaa cttctacaca 120  
 agaacgaaca aaatgctata atgaattccc aactgcccac acagttcaaa gttattgcat 180  
 accaataatt tcaagaacct ttattaactt acactttcaa agggattggc acaacaatat 240

tatatgctaa taaatataat aatcttaaga tgatgaagca ggtttggaag atgggttgaa 300  
 aggaacctgc tcagcgcatg taaggatgtc atggggccca gcctgttctc gaccaacacc 360  
 aagaagggtca agataatata ggtaatggga aacaatattg ttcattgagt ccacatcacc 420  
 ttgtccacaa acaccatccc catagagaat gttcattgta gt 462

<210> 11041  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220127h03a1  
 <400> 11041

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 tcatattcct agaatcacat gcagaggaaa ccaaaacaat ccaacaccaa accctaattc 180  
 ccaggagagaa cctccacata ttgtaggaca taggaggaac gttctacttg gcctaagagg 240  
 gctttgagga gctgttactc ttaacaacaa caaccctttt gcctttgcag ctccaatatc 300  
 tcctcctgac ctaaacacgt gcggtccacc agacctacc gcagagagaa aaccaccaa 360  
 ttgttgcccc ccattttcca aaatcataga tttcaagttc tctcctcta accaaccctt 420  
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 ccttgacctc atg 493

<210> 11042  
 <211> 430  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220127h03d1  
 <400> 11042

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 acataatatc tctttatgag ttacacactt tattggaaac tagtaaccat atatgtatta 120  
 ccacacacac atatataagt ggttgaagca tatagataat tttcaatccg aaagaagctc 180  
 tattttgatg cctctgattt taacacgccc tttcccatat ttgggaacca gcgtcacctc 240



aacactggca tcactctccg cttccaattc ttccaacaaa tccgtaagtc ccagcctcaa 300  
acaagtaatg atgcccttgt ttttgtgcat atgtgaatga ggcacactca caaagcttcc 360  
tgcaaattct gtattatctg gtcgaatctg cttatcatct tcattcattga taaacacatc 420  
aaatttcaca 430

<210> 11043  
<211> 333  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220127h04a1  
  
<400> 11043

cttgtctcct acgcgcccga tgtaactgct catgtccaac aaggtaaaat taccaaactc 60  
accgggggta agaccaaaga gctcttgctc tggatcacgc tcagagatat ctatgttgat 120  
gaccctccca ctggcaaaaat caccttcaag acccctgccg gcctatttag gtcttttcct 180  
gtctccgctt tcgagattca agaggagcct gaggctaagg acactactaa gcgcgtgccg 240  
gataccgctg agcctgtgca agtcaaggaa ctctgatttt attctcaaac aaggctgccg 300  
tggngggttag cgtgcaaaaat atatttatat ata 333

<210> 11044  
<211> 462  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220127h04d1  
  
<400> 11044

aacaatatcg taatccattt tcttttcaaa gccagaacaa ggagatgatg gttaattagc 60  
aataaagccg cacaatatct gaaagcttaa cataaaaggt aacataaata aacttattaa 120  
taaacatata tataaatata ttttgacgc taaccaccac ggcgacctg tttgagaata 180  
aatcagagt tccttgactt gcacaggctc agcggatatcc ggcacgcgct tagtagtgct 240  
cttagcctca ggctcctcct gaatctcgaa agcggagaca ggaaaagacc taaataggcc 300  
ggcagggggtc ttgaaggatg ttttgccagt gggagggtca tcaacataga tatcactgag 360

cgtgatccag agcaagagct ccttggtctt aaccccggtg agtttggttaa ttttaccttg 420  
 ttggacatga gcagttacct cgggcgcgta agagacaagc tt 462

<210> 11045  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127h05a1

<400> 11045

tgagttagca agacttatat gtatgtgttc aatcttgcag cccaaacaag aatttatcca 60  
 aggccggaga cgatatggtg gttgcgagct gttggtgttc atcttcatct tcatggctgc 120  
 cactgtcatt gccactgcat tcgaacttga aggcagcatc aacgtcactg tccccgaaat 180  
 ggaaatatca cgcattttct gaagcctcct cctcctcgtg ttctctcgtt cacaacaacc 240  
 atgacgacga ctttcaagct ctcttacaga tccttccatc tgatttgcac cacaatctcc 300  
 tcaatcaacc taaccgccct caacttctag atgttatttt ggatttgagg cgttttccag 360  
 attcgcgtta tctaggaaaa cacggaggcc attctttaag gaacactgag ct 412

<210> 11046  
 <211> 542  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127h05d1

<400> 11046

atcagcagga gatatacatg tgtgtgtgtg tgtgaaaaaa aaatggaaga aattattaga 60  
 aggggactca tgttgaataa taaatatccc taataattta gttttttacg gtgtttgatg 120  
 tggtcgctg atccatataa ctaattgcac ctagtgggat aagtaagact attgttacta 180  
 tcatagtaat atatgctcaa ttaacatacc tgatgtgtaa gccagtagtg tctatctctc 240  
 atctcaatta agaaatcaaa tgttggaggt gctttcctct caagaattgt cttctgagaa 300  
 tttctggctc tggcttctgc atctcccaga gtaacacttt ctattccgcc aatctaataa 360  
 agcaaagga ggtgaatctt gaatattact gttgattata ttgcacaatg attcatggct 420  
 ccacaaatca agtaaactctt taaatcttta acatcaaata ttaatctact aaatgcttat 480

tgaactgaat gggatgata atttttcagg atacttttga aaattaaaac gtcaatgaaa 540

ac 542

<210> 11047  
<211> 365  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127h06a1

<400> 11047

taggaggggt agtgagaggt gttgacttca cattgacgat cctttttttt tctgtctgt 60

ttgcttccaa tttctcatat cttcaatctt caatcttgga agataggaga acagcataga 120

ttgagtttta ccacacgata gtagagcttc tgatattttt cgaagaggaa aggcaaaaga 180

gttagcattt aagatgggaa aaacaattga gttgtatgga ttcctacat ctgagaatgt 240

gtctgatgta aagacatttg tagtgcagta tactgggtgaa tgaactgtgt tcgccattaa 300

attaagacat ggaaaaagtc ggggtccaag agcatttgca attattcaat tcaccaccgc 360

aaatt 365

<210> 11048  
<211> 359  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220127h06d1

<400> 11048

accattcaa aattttttatt ttttaatttta aaaaaagcag gggaatggaa gtgccccccc 60

ttattccttg agagaaaagg gatataattca ctcatacctg ttatataggg acattaccat 120

agaacatacc tgcgttggtc ctataaaaat ataaacaagc tgcctgggtc aaaaatccaa 180

ctggaaaatg gggggggcaa agtccaaagt tggcaactca aacgcaacc actgaaactg 240

ttttccaaag aggacctttt aatgctgagt ttcttttttt tgatttggac aaaaagaggg 300

taaaccccc ctgggaaact tagataaggg ccccttttca tgcctttatt atagcaacc 359

<210> 11049  
<211> 205  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127h07d1

<400> 11049

aaaaagaaaa attggacttt ttcaattata acatctgcga acattcattc caattcaaaa 60  
tattgcgct cactgaattt aagcaacatc ccatatattc cttttcgct agtttttagcg 120  
gcttcttcag ccattccctt gagatattgc ttaaattcag ggaggcccaa tattttgaat 180  
tataacatct gcgaacattc attcc 205

<210> 11050

<211> 364

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127h08a1

<400> 11050

ggagtttaga ttttcgtccc aaaatttcct gagtggtagc ctgagagcta acatattact 60  
ttcataccaa ctcaaccaat ttatcttctt ctttaattca actacaaaaa ctggttcgcy 120  
gggaaaactt gattctcggtt atttgacata acatattagt aatccttcag gggacatatg 180  
aattatatga taaaatacaa gcatgtaata tgagaaatag aagcatgtaa tatttgattt 240  
acttcaatct ccttagaaac tttgaaatta ttcaatttac ggcatttctg gttaaattcg 300  
tttagtatta taagtgcacc tgtacaactt aagtgtgaaa ttggctgcac tatatataat 360  
atga 364

<210> 11051

<211> 546

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220127h08d1

<400> 11051

ctcgtgttca agctgcaagc accagcactt tgatgggtgcc ttgactattt gctgttagaa 60  
tagtggggcg atcactcttc cagcaaacag cgctgatgaa atatgatcca gcctcatctt 120  
cagcgtcatc catatcaggg gacccaaatc tgtgcgaagt caaaggcttc gagatttcct 180

tgtggtaaac aaagacttca tttgtttcac tgccacacgc aatatattca ctgcttactg 240  
 taagaccaac aaagtttttc tcatttgcac ggcctttgaa agtacgaact ggtaagtttt 300  
 ccttcacatc ccataatcgc agtgtactat ctgttgatgc agaagcaagt tcatcattag 360  
 acagaaattt cacgtatgaa acagccttcc tgtgcccact gaaaacatgg actggacggc 420  
 taatatttct caaatcataa taatggatat gatggctctg tgacccaact gcaatataat 480  
 tgccagatcc aggattatat ttgacacaac atatgtttgc tttcatgtct atatttagaa 540  
 cactag 546

<210> 11052  
 <211> 325  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127h09a1  
 <400> 11052

agtatttccc tacctctccc ttcaagaagc agatcttcgt caagaccctc accggcaaga 60  
 ccatcacctc tgagagagga aagctctgac accatcgaca acgtcaagag ccaagatcca 120  
 ggacaaggaa ggaatcccc cggaccagca acgtctcatt ttcgccggaa agcaacttgt 180  
 ggacggccgt acccttgctg actacaacat tcagaagggtg attgctcttc acctagtcct 240  
 ccgtctccga ggaggcatgc agatcttctc gaagacactc accggcaaga ccataaccct 300  
 agatgtagaa agctccgaca ccac 325

<210> 11053  
 <211> 481  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220127h09d1  
 <400> 11053

caacacaaac cgaacttatt ttcaaggac attattacag acccattaaa catcaaagtt 60  
 cttcaaagtgt tttgggaaca catccaacat tacacaacga gcttaaaacc cccacaggag 120  
 acggaggaca aggtgaaggg ttgattcctt ctggatgttg tagtcagcga gggtccttcc 180  
 atcctcgagc tgcttgccag caaaaatcac cctctgctgg tccgggggga tgccttcctt 240

gtcctgaatc ttggccttca cattgacaat ggggtcagag ctctccacct cgagggtaat 300  
 agtcttacct gtaagagtct tcacgaaaat ctgcatacca ccacgaagac gcaacaccaa 360  
 gtggagagtt gactccttct ggatgttgta gtcagcaagg gtgcgtccgt cctcgagctg 420  
 cttcccggcg aagatcagcc tctgctggtc tggggggatt cctccttgt cctgaatctt 480  
 a 481

<210> 11054  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127h10a1

<400> 11054

catccgcagc tgcttttatt cgcaccgcaa acagagagcc atggccgtcg gaaagaacaa 60  
 gcgcatctcc aaggggaaga aggggtggcaa gatgaaggca gctgatccct ttgccaagaa 120  
 agataggtat gacattaagg ctcttctgt ttttcaagtg aaaaatgttg gcaaaaccct 180  
 cgtctctcgt actcagggtta ccaagattgc ttctgaagga ctcaagcata gagtgtttga 240  
 ggtctccttg gctgatcttc aaagggatga ggatcatgca ttcaa 285

<210> 11055  
 <211> 490  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220127h10d1

<400> 11055

ggggtctaaa caaaaccag atatatatta cgcacaaaaa atgtcttctc gttgtctaaa 60  
 caaaactgtc actcagctta cacagaaaca tttgacagaa cagtaagttt gtaacttaaa 120  
 ttttcaatgg taacataaga aacagaaaac ctagaacaat ttgaatatgc attatcacta 180  
 aatcaagctc caacaatttc aggggggttc tctgccacta tttcatcagc agggctgtct 240  
 acctttgcac caacatcctc ggagtaatct ccatgaacct ccatcagttt cccaagatca 300  
 aacttaggag ctttcaggat cttgacttta cgaacaaaca cattctgcag agggtaaata 360  
 ctagatgttg ccttctcgat ctcttttcca ataattctag gaataaactt ccggaccaac 420

tccttcaaatt cacatgctgt tgcttgggtg gtcattgatct cctcatctt tctacgaatc 480  
tgtctaattct 490

<210> 11056  
<211> 348  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220127h11a1  
  
<400> 11056

gagatagcaa catccttgct cacacccata tcaggaaaag aagaaaatat cacattattc 60  
tctctctctc tctctctcac acacacacac acactacgta tgaaatcccc gtagccagaa 120  
tcgtctccct tccaaccaga caacaaacgc caccctcaca ctctcaatta ttctcacatt 180  
ttgatttggt tatatattat tcccttttca agactctcaa tatcatatct tctacttgaa 240  
gcaaagtttc cttcttgga gatatggaga atccaggatt gttttctgcy aataagtctg 300  
agaattcggg gaaagtaagc tttcggatac cggattttac ccaatggg 348

<210> 11057  
<211> 397  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220127h11d1  
  
<400> 11057

nnnttagcta ctacgatcta acaaatacgt cagcccact ctagctgcac cttttattaa 60  
aataccaata ttttaattcat tacaagtacc aggtagggtt taacctatct ttaacaaata 120  
tatcttttta atcaaggacc aacttacagt cgctctgaat gaaattcaca acgaacgcct 180  
ctttaatgtc ataaaaactt gttccattat cagtgaatga tttgaggtaa acaagaacat 240  
tacatcataa ggtaactttc ttctctccac taatgaactc atcacccaac tttattttta 300  
caacatgttt tgcttccaaa aacattgaaa atgtgcctat ttaaaaacaa atttcaaata 360  
aaaacactaa aacttcttag cattctatta aagaaca 397

<210> 11058  
<211> 282

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ttttgttgaa tcgttaatat cagatggcag atctgtcttg attcactctt atgccctgtg 300  
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<210> 11063  
 <211> 99  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128a02d1  
 <400> 11063

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<210> 11064  
 <211> 580  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128a03a1  
 <400> 11064

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 gtctttgtgc attccttagg tttgttaggt gcccggtacg agtatgatag tcatcagttt 120  
 taaagtgtcc atgcctctat taatcaggaa acatcgctta cgaggatatt tgaagttaca 180  
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 caggtggttg agacatcgag tgtcatgaaa ttatccatgt gtcactctct gttggcactt 480  
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 ccattactac tcccacatga ccttgtagat gaagagcacg 580

<210> 11065  
 <211> 189  
 <212> DNA



<210> 11068  
 <211> 241  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128a06a1

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 atccattgaa cctaagcctg ctctctctat tcatctgagc agattcaact gcaacatatt 120  
 tgcggctggc ataacttttg ggcgatgcat ctttcacgta tcaatttgat ggcgagacca 180  
 aagaatctgt accagcagcg aatggttgtg agtctcaagt caattatcag ccaggaaact 240  
 c 241

<210> 11069  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128a06d1

<400> 11069

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 agaaacttaa aaaggaacga gggataaaat accataatcg tagataaaga gttttaact 120  
 cagcgaatcc gatcctactg aaaacgtatg aaggcatcgc gtcaatataa ccggttaatc 180  
 ccctaagtat gggtgcaaaa tgaggg 206

<210> 11070  
 <211> 284  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128a07a1

<400> 11070

ctcatatact gcgtgcttca tttatattgc taaatccacc catcgatctt tggctatggg 60  
 gtgcattcaa cctaaacctg ctctccagc tcatctgagc cgttttaact accacacatt 120  
 agcggctggc agaacttctg gccgattcat ttttcacca ccaaattgct ggcgagacca 180

aagtatctgc accagcagcg aatggttgtc catcatctgt caactatcat ccaagagaac 240  
 ttttattctc caaacaatgg agatctccca ctatttcaat acta 284

<210> 11071  
 <211> 91  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128a07d1

<400> 11071

ataaattggt aaacacagat acagggcatt catagtaa at agcatccaca tgcatatggg 60  
 tacacttgac atgaaagagg gaaaaaagat c 91

<210> 11072  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128a08a1

<400> 11072

gacacataca acgggcggtta ttcgagatga tagattgaac cattgctttt tggctatcag 60  
 atgcattgaa caatagcctt tgcattgcgaa tctctttttg agtcttcagt agcactctac 120  
 aagaccttgc aagggagagg tacaatcaat tttgcaagct actgatgggt cacctgtgca 180  
 atgcatcccc accagcacat catggctttc catcaaaact cgtctctatg ctatgaagct 240  
 cctagtcacc tagagaagag ccgatccaac gagtcggagt atttt 285

<210> 11073  
 <211> 90  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128a08d1

<400> 11073

atattcattg ttatatccgg agacacggca aataaacgaa agcacaaatg acaaaaggtc 60  
 aatacactcc aaagggtacat gttaccacaa 90

<210> 11074

<211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128a09a1  
 <400> 11074

gatctctgct tctacctggg tgcttatcct tgcacttaaa aggtacctat tagttccaag 60  
 gggtaagggt aagaacttgt aagttatagt agcagttact ggaggaagaa gcttcaattc 120  
 cttgcggata acgaatgtgg ttggagtgcc aagtgagcat ttaaccgat acatgcatct 180  
 cttcaaagtt gagacgagat tgttttggtg gcttctcttc ggtcctcttc ccgtggctta 240  
 ttgatataata gaacaattag tccaggaatt tatgcaaaag actgatagag caaggcaaag 300  
 tagagagtct taacaataaa tgggtttttt ttataaata tttcttggtt ctaataaagg 360  
 cttgcatcac ttattttatt tttgtagtta gttcttttat ataaataagc atcctcttaa 420  
 tgtatgtagt cacttcagtt tcagattact aaatttttgt tgttct 466

<210> 11075  
 <211> 335  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128a09d1  
 <400> 11075

agaacaacaa aaatatttag taatctgaaa ctgaagtgcac tacatacatt aaagaggatg 60  
 cttatttata taaaagaact aactacaaaa aataaataag tgatgcaagc ctttattaga 120  
 aacaagaaat atttataaaa aaaaaaccat ttattggtaa gactctctac tttgccttgc 180  
 tctatcagtc ttttgcataa attcctggac taattggtct atatatcaat aagccacggg 240  
 aagaggaccg aagagaagcc accaaaacaa tctcgtctca actttgaaga gatgcatgta 300  
 tcggttaaaa tgctcacttg gcacttcaac cacat 335

<210> 11076  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220128a10a1

<400> 11076

gggtagtctt gaagcggaaa gaacaacagt aggattggca gcaagagacc cttcagggat 60  
tctctcccca tacacctaca atctaagaaa cacaggccct gatgatgttt acattaaagt 120  
tcactactgt ggaatttgcc attctgatct ccaccagatt aaaaatgata ttggcatgtc 180  
caactatccc atgggtccag gacatgaagt gggttggtgag gtactggagg tgggatcaaa 240  
cgtttagcagg ttcagagtgg gagagtgtgt gggagttgga ctctctgtag gttgctgcan 300  
aaactgccag ccatgccaac aagacattga gaattactgc agcaagaaga tctgggtctta 360  
caatgatgtt tatgtcgatg gaaaaccac acagggtggc ttgctgaaa ccatgatcgt 420  
tga 423

<210> 11077

<211> 301

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128a10d1

<400> 11077

aaacaaaaca cagcttcttt tttagagtga acaacaaata cagctttagt tctcaattaa 60  
ttaataactt ttccagactc ttcgatgtgg aaggatggat gttgcgtgtg tccggctagt 120  
agtatacttt ctttctttta ctgatcgaca agtttgctgc ctttgacatc cacaacaaac 180  
ctgtatctca cgtcattctt ctccaacctt tcaaaggctt tgtaaatgta atccatgttt 240  
accatttcaa tcatcgaact cagacccttc tttttccaga actccaacat tttctttggc 300  
t 301

<210> 11078

<211> 336

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128a11a1

<400> 11078

ggagaaggca ttgtggaagt ccaagttcgt gggttccgga ggggggtaga agtggatgg 60  
gtttgtggta gtacacaaaa ccatctttaa cgtttcacat ctaacaccaa caccatttac 120

agaaaatgaa acaactcgat gcattctaga cccaagaaac aaccccgcaa ccagtaccag 180  
ccactcatgc tctccaaca aaacaaacaa caattaactt tctactcaa gaataacatt 240  
cttcaactga agatcctgcc ccataatcaa ccaccaaagc accaaaagca gaaaccactc 300  
gatcaccaac acccgaatct gttgaaacaa ctccta 336

<210> 11079  
<211> 191  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128a11d1

<400> 11079

gatcgaatac atagttatatt tcatgattga gtttttacct actgacacaa ataatgatca 60  
taatactaca atcattgcaa gtggcaattg cttctggaac acgcttctaa cataatatta 120  
atttataatc tttagaatat gtggccatcg cgggtgcgttc cattgatcca ttctaacctg 180  
cattttatta a 191

<210> 11080  
<211> 327  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128a12a1

<400> 11080

attctccctt tctctccga accctcgatc actctcacgc gctcctatat tgcctcctcc 60  
accgtcgctc tctcgaacaa ccacaacacc atcttcatca catggcaaac gcagcatctg 120  
gtagggcagt ccatgatgac tgcaagttga ggtttttgga gctgaaggca aaaaggacac 180  
accgtttcat agtttttaag attgaggagc agcagaagca ggtcattgtg gagaagcttg 240  
gtgagcctgc ccagggctat gaagatttca ctgccagcct tctgctgac gagttgccgt 300  
atgctgggta tgagtttgag tatctga 327

<210> 11081  
<211> 288  
<212> DNA  
<213> Glycine max



<223> Clone ID: jC-gmf102220128b01a1

<400> 11081

atcctatatt ctcttcttga atcatcttgc ttatgctgcc tatcaaaatg gacttattag 60  
gaccggagat catagggcca ctcatcttgg tttcttgctt ggattgagca tgacactatt 120  
tgccggcgctc cgaacccaag acgaaggctc atccacctat catgctcctc gcacacccaa 180  
agcatcttca cctgccgtac agagatctgc gtcacctgtt ccctcttgac ctccaccctg 240  
tgagtatgcg acaccaggta ccactcgccc tccatccaca ctcaacta 288

<210> 11082

<211> 141

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128b01d1

<400> 11082

actcgaatgc aacgatcgat aaactaatag taatggcata caaaataact gccctcgaat 60  
acaaaacctc ccctcaaate taccaagaat gcaagcaatt catatagtgc aaatacagca 120  
ttaaactccc acgatcacat t 141

<210> 11083

<211> 474

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128b02a1

<400> 11083

atttctctct gccttgctca ttacacacc tctccaacct tttactttca gctttatttg 60  
aatccctctc tctcctttcc aaatggccag cggttgagggt gcacatcaaa caccaacaac 120  
agttccagaa aatgaaacaa ccgaggtaat caagaccag gaaacaaccc cggaaccagt 180  
gccagccact gaggtcctg caacagaaca agcagcagct gaggttcctg ctcaagaaga 240  
acaacaagca actgaggttc ctgccccaga atcaaccacc gaagcaccaa aggaagaaac 300  
caccgaagca ccaacaacag atacagtcga aacaacaact acagaagaag ccaagccaga 360  
tgagcctaaa gaagttgcag ttgagaccga cgaggtgggtg aaaaaagaga cagaggaaga 420

gaagccagct gcacaagaga aatcagagga gaaaactgaa gaagtgaaag aaga 474

<210> 11084  
 <211> 203  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128b02d1  
 <400> 11084

aaagtaaata tcatttattc aaacctaaag aaacacaata gcacatgatc acaaactcat 60  
 gtaaccctgc caataaaata aaccctcatc cctaaactcc aggacccagg agcagcttgc 120  
 tcacttcaat acacaactcc tagaatatcg tatgggacca cggggaaagc acgctgatgt 180  
 ggagccaaga gttgtgctca cac 203

<210> 11085  
 <211> 371  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128b03a1  
 <400> 11085

ctttaacctc accccccct agccacttcc taattagcat tattattgtc cacagacagc 60  
 taaaggatcc tgtatgtctc tctctatc tactctagat ccgacacccc catacatctc 120  
 tccctatgac tccaaccac atctgatgtc agtgatacgt tctgactata cttactatgt 180  
 gctctcctac cttecgctgaa ctacatgtc gccacaaca cttctcattc cacctctcca 240  
 cccaattgt caccaacgaa ttcaccgcat atgttcgctt acatgtcgaa ctaagctatt 300  
 gttcatcggtt gttgccaccc catgcgcaa tgcctcatgc acgataccca tatatgtctt 360  
 agagcatgta a 371

<210> 11086  
 <211> 92  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128b03d1  
 <400> 11086

aagacttact gtagaataca tatctagggg agcactggga gttgataacg ccgtccattt 60  
aaatacatta tacaggactg aggcagaaat gt 92

<210> 11087  
<211> 282  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128b04a1

<400> 11087

cttttgctca acgatcccca cttaactcc atgttgccat catctgtttg ttttgacagt 60  
caccggtgat cgtaaaacac ttaatacaaa cttcatcatg tttttacttt actctactgc 120  
tggtgatttca tgaacaactt tatatgcatt cttcaagcta acgtgggttg tgataatggg 180  
ccctgctgac actccagagg aatgatgcac cattaaatta acttttcaat caccggacta 240  
tttttctgaa taaccaatat ctgaacgaag tccgcatttg at 282

<210> 11088  
<211> 93  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128b04d1

<400> 11088

accatattca ctattgaacc catatcctca ccagcacagt gtactgacag cggcgacagt 60  
ttttctacat tggaacgcaa tgagatactc att 93

<210> 11089  
<211> 114  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128b05a1

<400> 11089

cttatataca acgttcttca ttcttaatga tatatccacc catcaatatg tggctatggg 60  
atccaatcaa cctaagccta ctctcttaa tctccttagt agtttccact acca 114

<210> 11090  
 <211> 262  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128b05d1

<400> 11090

tgtgggtgat tctctatgac agctatgacg atgcatgcac acgtccgtat ggacgagctc 60  
 actcttcagc ggccggcctt actacttggt tgttttttgc aattgagaac acttttactg 120  
 agagctgcgt gacagagaag ttattctatg ccttagactc tgggtgcagtt cctatctatt 180  
 ttggtgcacc aaatgtcatt gattttgggc cctccacatt caataataga tggtagaaaa 240  
 ttcaacttat tggaagagct gg 262

<210> 11091  
 <211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128b06a1

<400> 11091

gtcatagcgt gcgtgcgtca aatatattgt ttaagccacc catcgatatt tggttatggg 60  
 ttccattgaa cctaagcctg ctcttccaaa tcgctgagc agattcaact accacatatt 120  
 tgccggtggc tgaactgccg ggccaatcat ctttcacgca ccaagttggt ggcgtaacca 180  
 aagtatttgt acctgcagcg aatggatgtc attcttccgt caattaacag ccaagaaact 240  
 tttatgcttc a 251

<210> 11092  
 <211> 148  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128b06d1

<400> 11092

attgttatac caagatacct ggcaataatg ttaaagcaca acccctaaaa aaccagaacc 60  
 ataaacatga acgagtgaag aaaaccata atcattcagg aagactttta taccactga 120  
 atccgatcct ggggtaaaaag gctgaagg 148

<210> 11093  
<211> 335  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128b07a1

<400> 11093

gtcatatgca gcgtgcgtca gttttattgc ttgagccaac tatcgctatg tggctatggg 60  
atgcattgaa cctaagcctg ctctccaga tctctgagg ggttttaact accacacatt 120  
aaaggctggc agaacgttcg gacgattaat ttttcaagca ccaaattggtt ggcgtagcca 180  
atgcatctcc accagcagcg gaggtctgtc attcacctgt caacttgaag gcaagtaact 240  
cataggctcc aagcacaggg cagaatccac gatcaggaat agtaccgccc ggggatggat 300  
tttctcatcc gtgaggaatg gattatcctt tcatt 335

<210> 11094  
<211> 95  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128b07d1

<400> 11094

attacactta taatgatacc tagataacag acaataaaat taaagcacta aaccaatggg 60  
gccattacta tctaaacaga cgcacaaaaa gtaat 95

<210> 11095  
<211> 241  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128b08a1

<400> 11095

ctcatacaca gcttgcttca aacatattgc taaaccacc catcgatctt tggctatggg 60  
gtccattgaa cctaagccag ctctcctaa tctctgagc tgttttaact gcaacacatc 120  
aacggctggc agaactgacg gacgaagaat ctttcaccca acaaattggtt ggcgtaacca 180  
aagtatctcc accatcagcg aagggatgtc agtcagctgt taactatcag ccaagaaact 240

c

241

<210> 11096  
 <211> 201  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128b08d1

<400> 11096

atatagatag ataaacaaag ataaaaggca ataataattaa agcacaagtt caaaaaaatc 60  
 aaaaaataa aaagaaacga gtgaaaaaaa cccaaaagca cacagaaaga gatgtaaact 120  
 cacagaatcc gatcctggta aaaacgggtg aaggcaacgt ataaagataa cagagtaatc 180  
 cgtaaagttg attgaagaat g 201

<210> 11097  
 <211> 321  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128b09a1

<400> 11097

cacgaacaca acgcacatca taacaattgc caaacccaac cattgctttt tggctaccgg 60  
 aagcattgac ccaaaacat caaacccaaa tccctttatc attcctaact acaactcatc 120  
 aaagccttgc agcccaacga accatcaatc gttcacgggtg ctgatcgggt acaggaccaa 180  
 cctctcacca ccagcagaga acggctgtca cttagctgtc aactctaagc cattgaactc 240  
 tcatacttct aaaacagtgc tcttccaacg attggaactg ttccgaacaa agaggaatct 300  
 atccgtgcgt gaagaatcca t 321

<210> 11098  
 <211> 163  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128b09d1

<400> 11098

aacactcata atgataccta gataacaggc aattaattga atgcattaga ctctggagca 60

cttcatatgc atactgttgc tgttacaatt actggaattg gaccctaaca gtttcatact 120  
gcatgatttc caacctgcac aaaattgacc aatggaaagc ctt 163

<210> 11099  
<211> 465  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220128b10a1  
  
<400> 11099

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gagggtgctg agctcctccg aagtcaaatt ccacgcgcgc ccgcacgacg ccgcgtcctt 120  
ccgcccgttt ccgcggcgcg aagatctgag caagcgggtgc gtgcagtggg cgttcctcgg 180  
ctgccccggc gtcggaaaag gaacgtacgc tagtcgcctg tccaacctcc tcggcgctcc 240  
tcacatcgcc accggcgatc tcgttcgca cgaactcgcc tcctctgacc ccctttcttc 300  
ccaggttctc ttcttcttcc tcttcacttt gaattaacta gattaatttt tgtaacgcac 360  
atttggtaa gggtattgaa atttctgct acggcgacgc gcttagacag aaaaatggga 420  
tgataattat tattttaaaa aatattaata agttgtcatc taatc 465

<210> 11100  
<211> 234  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220128b10d1  
  
<400> 11100

attcaaataa catgaaacat catattaaat aatttttttc ctggaagtta ctccagtaaa 60  
aaagccttcc ctaaatacag agcatgtgat gatgtgttg aggtaataga ataagttcat 120  
tcacatttaa tttaacaata tagtgatgat tgccaatcc tatcgacgtt gattcccgac 180  
caactatctt tctagccata ctgggagata ttattcactc tttaacaata cctt 234

<210> 11101  
<211> 294  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128b12a1

<400> 11101

caacaacatg tctcagtttt ccacctccaa acgctgaata aaaaaaaagg aatcacagaa 60  
acagagtatc cacagcgtat agtcccaaaa tgcattctgga tcaacatgac cccaaaacga 120  
caacaagagc aacaaaagtc ctccctctgt tctctactt gttcttcttc ttcagcctcg 180  
cctcttcggc tcttcccatg ctccctctcg acgcagtatc gttagtgtcg tttaagcgtg 240  
aagcggacca agacaacaag ctctctact ccctcaacga aagctacgac tact 294

<210> 11102

<211> 240

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128c01a1

<400> 11102

ctcataaaca gcttacttca aacatattgc ttattccacc catcaatctt tccctattgg 60  
gtccaggga cctaaaccaa cacctcctaa tcatcttacc atatacaact acaacatatt 120  
aacgtctggc aaaactacga acgaagcatt ttccacccat caggttcttg acccaaccaa 180  
agcctttcta ccatacagcaa acgcattgtga ttctccagta aattatcagc caactaactc 240

<210> 11103

<211> 160

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128c01d1

<400> 11103

gtacatagat agtaaaacca aaagaactgg caaacatggg aaaggacaac ctcaacgaaa 60  
ccagaaccat aaagaggtac gagggaaaaa gaccacaaac gccaaagaaa gagatctaca 120  
ctgacacgaa tcccatcctg gggaaaaagg attgaggcaa 160

<210> 11104

<211> 102

<212> DNA

<213> Glycine max



002220128c09a1

<223> Clone ID: jC-gmf102220128c02d1

<400> 11104

gtattgataa ttaaacaata atacctggca ttaatgtgaa tgcacatggt catagaatcc 60  
tgtaccttaa agatgtacgt gggtaaattg tctagagcag ga 102

<210> 11105

<211> 253

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128c09a1

<400> 11105

cgcatacact gcttgcttca aaaagattgc ttgacccaag taacgatctc tggctattcg 60  
atccaatgaa cctaagcctg ttcctacgaa gggcctgagt tgcttcaact acaacccatc 120  
atccggtggc gagacgccgg gataataatt gttcaaccct cacatggatg gcgcatgcaa 180  
accatctaca acaaccgaga aggggatgga ttcagctgtc aactcaacc caggaaactt 240  
ttactattca aag 253

<210> 11106

<211> 168

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128c09d1

<400> 11106

atacaaataa aaaaaccaaa acacccggca ttaatattaa agcacaacct cataaaaacc 60  
actaccataa aaagaaacct gggacaaaaa cccaaaatcc acagtaacag ttacagactc 120  
agccaatccc atcctgcgaa aaacatatga atgcaacgcc tcacgata 168

<210> 11107

<211> 584

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220128c10a1

<400> 11107  
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 tttggaatca tcggaggaaa caaggggtcac aagataaagg ggaacttggt gattatgcga 120  
 aagaatgtgt tggatatcaa cagcatcacc agtggttaagg gtgtcattgg aaccggcatt 180  
 aacatcattg gaggtgtcgt cgacaccgtt actgctttgg cgtcccacat ctccatccag 240  
 ctcatcagtg ccaccaaggc tgatggacat gggaaaggta aagttggaaa ggctacaaat 300  
 ttaagaggac aagtgtcgtt gccaaccttg ggagctgncg aagatgcata cgatgttaat 360  
 tttgaatggg acagtgactt cngaattccc ggtgcatttt acataaagaa cttcatgcag 420  
 ttgagttcta tctcaagtct ctaactctcg aagacattcc aaaccacgga accattcact 480  
 tcgtatgcaa ctcttgggtt tacaattcaa aaactacaag actgatcgca ttttctttgc 540  
 cacaatacat atcttccaag cgagacacca gctccacttt tgag 584

<210> 11108  
 <211> 259  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128c10d1

<400> 11108  
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 cagcaaacac gagaacattc aaccacccca aatgtaactt gaccatacgt aggtcgatga 120  
 aggaatcata ttctctctat ttcacattat tgaaaaacag gcagagtagt acagtcaacc 180  
 ctaatgagag agcccttaga tagagatact gttgggaaat cctctgaaag gcaattcctt 240  
 ctactagaa agatagagc 259

<210> 11109  
 <211> 251  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128c11a1

<400> 11109  
 cgccctgtct aactacatgc atggacttgc acctgagaac acttttactg agagctacgt 60

gacagagaag ttatactatg ccttagacta tgggtgcaggt cctatgtatt tcggtgcacc 120  
 gaatgtcaat gtattctgtc ccttcacatt cagtaataga tggttgaaca tgcaagtcatt 180  
 tggaagagta ggctatgcac gtgaaggctg tagctaataga tccagctgcc tatgcagaat 240  
 accatgcatg g 251

<210> 11110  
 <211> 157  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220128c11d1

<400> 11110

gaatgaagag tgatgtttgc atgaattgac atatcaagtt gacatatgca cgtgttatta 60  
 tcaaaaatca tacatcaaca aaaacacttc aactatagtg taacctaaagg tggagataga 120  
 atcaacctct ttccaccaaa aaaggggggc aataaaa 157

<210> 11111  
 <211> 252  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220128c12a1

<400> 11111

cgccatgtct cactacaagt ttgttcttgc aattgagaac acttttactg agagctacgt 60  
 gacagagaag ttattctatg ccttagactc tgggtgcagtt cctatctatt ctggtgcacc 120  
 aaatgtcatg gattttgtcc cttcacattc aataatagat ggtagaaaat tcaactcatt 180  
 ggaagagttg gcttcgcacg tgaaggctgt agctaatagat ccagtagcct atgcagaata 240  
 ccatgcatgg ag 252

<210> 11112  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220128d01a1

<400> 11112



<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128d09d1  
 <400> 11115  
 attaatatac aaatataata ggcaataatt ttaaaaaaca aaccataaaa aaccaatacc 60  
 ataaaaatat acataagaaa ataaactaaa atttctaata aatagaatta aacatactta 120  
 attccattct 130

<210> 11116  
 <211> 253  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128d10a1  
 <400> 11116  
 cgcagatact gcttacttca aaaatattgc ttaaccacc caacgatctc tgtctattgg 60  
 atgcattgaa cctaagcctt ttactactaa tttctttcct gtctataact acaaccatc 120  
 atccggtgac aagccgccgg gataataatt gttcaaccct cacatggatg gcgcaaccaa 180  
 accatttaca acatccgaga aggggagggga ttagctgac atctctaccc catggaactt 240  
 ttacttttca aag 253

<210> 11117  
 <211> 225  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128d10d1  
 <400> 11117  
 tcccttttct ttttttcttt ttatcacat tttttatata gattatcaaa cccaaacaac 60  
 caccaaaaat attaaccat ttagtgaggg ttaactgcac cctagacaca aacctgggac 120  
 caaaaccaa ctgcaccaac aaggagattc agactacgac aatcccaccc tgctaaaaac 180  
 ggatgaatgc cacgcaccac tctaacacgc taatccctta gggtg 225

<210> 11118  
 <211> 310

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128d11a1

<400> 11118

cgccatgtct cactacaagt ttgttcttgc aattgagaac acttttactg agagctacgt 60  
 gacagagaag ttattctatg ccttagactc tgggtgcagtt cctatctatt ttggtgcacc 120  
 aaatgtcatg gattttgtcc ctccacattc aataatagat ggtagaaaat tcaactcatt 180  
 ggaagagttg gcttcgcacg tgaaggctgt agctaagat ccagtagcct atgcagaata 240  
 ccatgcatgg agaaagctgt ggtgtacctt ggtaactatg gaaaaactcg agctgtgagc 300  
 cttgacacgt 310

<210> 11119  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128d11d1

<400> 11119

acgtccgtgg ccgccctttt tttttttttt tttttcaatt ttgaatgaag agtgatgttt 60  
 gcatgaattg acatatcaag ttgacatatg cacgtgtttt tctcaaaaat catacatcaa 120  
 caaaaacact tcaactatag tgtaacctat gtggagatag catcaaccac tttctaccag 180  
 aaaagggggg caataaaaaa taaaatatca catgagctaa gcctttcttg gtcaaatgta 240  
 cattagctca gagaaacaag caatctctat acaggttgca aacctaaatt caatgcgtca 300  
 atctctatca tgcagaacta ccaatctagc aaaaaactca acctagcttt ccgcattt 358

<210> 11120  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128d12a1

<400> 11120

cgccatgtct cactacaagt ttgttcttgc aattgagaac acttttactg agagctacgt 60  
 gacagagaag ttattctatg ccttagactc tgggtgcagtt cctatctatt ttggtgcacc 120

aaatgtcatt ggattttgtc cctccacatt caataataga tggtagaaaa ttcaactcat 180  
 tggaagagtt ggcttcgcac gtgaaggctg tagctaata tccagtagcc tatgcagaat 240  
 accatgcatg gagaaagggtg tgggtgtactc tggtaactat ggaaaaactc gagctgtgag 300

<210> 11121  
 <211> 240  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128e01a1  
 <400> 11121

gttcgaggct gcgtgcttca aacatattgt ttattccacg catcgatctt tctttattgg 60  
 ctccggggaa cctaaacctg cacctcctga tcatctgcgc tttttcaact acaacttatt 120  
 agcggctggc gatacaatgc gcgaagaatt ttacaccgtc caagtgttg gcgcagccaa 180  
 agcatatgta tcagcagcgc acgcttggtga atgtcctgta aattacaagc caaggaactc 240

<210> 11122  
 <211> 90  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128e01d1  
 <400> 11122

attatacaat aataactatc aatcatggta aatttctttc tcataaaatc cactacctta 60  
 tatatatatc tgттаacata ttctcaatt 90

<210> 11123  
 <211> 192  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128e09a1  
 <400> 11123

cacaacacgc tgcttcaaaa ctattgcaaa cccaccatca ttgtggtatg ggatcattga 60  
 accataacct cacctcaaat cccctggcct atataactac acacattaac ggctggcaac 120  
 cgccggggcga agaattgtaa cgcaacaaat gttggcgtgg ccaacgtcta gaccagcagc 180

gaacggctgt ca

192

<210> 11124  
<211> 96  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128e09d1

<400> 11124

atataaatta ttaaataaaa ataatggga aaaatattaa aaaacaaact caaaaaatcc 60

attaaaataa aaataaacgt aagaaaaaaa ttaaaa 96

<210> 11125  
<211> 249  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128e10a1

<400> 11125

cacatatata gcttacataa aaaatattgc ttaaccacc catcgatctt tgtctattgg 60

atgcattgaa cctaaaccag cacctcctaa tctcctgagc atatataact acaacacatc 120

agcggctggc aaaccgagc acgaagaatc tttcacccga cagatgggtg acgtagccaa 180

tgcatacagta ccagcagcga acggctgtca atcaaatgtc aactatcagc caacaaactc 240

acagtcttc 249

<210> 11126  
<211> 170  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128e10d1

<400> 11126

atataaataa atatacaaaa ataatggca ataataattaa aacacatcct caaaaaaac 60

attaacaaaa aaagaaacct gagaaaaaaa accaaaacac aaagaaacag atttagactc 120

tgacaaaccc accctgggaa aaacatatga atgccacgca caactataac 170



<210> 11127  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128e11a1

<400> 11127

attcaactta agagatcaat atggccacca ccactacca gcctccctct aatatctgtt 60  
 ttttccttct gttgttgctt ctagcacact ttcatttggg cataagccaa cttgagctga 120  
 attactactc taaaagctgc ccaaaagctg aagagatcat caaggaacaa gtcacacaac 180  
 tatataacaa gcatggaaac actgccgttt cgtgggtcag aaatctcttc cacgattgcg 240  
 tggttaagtc atgcgatgca tcattactgt tagcgacggt gagcgatgta atggtcgagc 300  
 agacatcgat aggaagtttt gggatgagaa actttcaggt acgtaaacac 350

<210> 11128  
 <211> 323  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220128e12a1

<400> 11128

ctacccttct ctcacaaatc tatttccatt ccattccctc agagagagca agatcaccct 60  
 tctatagaga gaaaacacac acacacacac acaaaacaaa actcttaaag agggatgaaga 120  
 tttttttgga acagaataag agtatggccc ttacaaaaca aatcttgggt tcttcattgc 180  
 tagagaggtc catgtttggt ccttcttctt ccccttcac ctttctgaac caaactcggg 240  
 tcttagttcc tttggagaac aagagagttg tgagggtgaa gagagctgca nagtttcctg 300  
 tggcagctat aagtgaggat ttg 323

<210> 11129  
 <211> 240  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128f01a1

<400> 11129

gttataggct gcatacttca aacatattgt ttatttcaac catcgatatt tgtttattgg 60  
 atccggggaa cctaaaccaa caactcctga tcttctgctc atatttaact acaacttatt 120  
 agcggtggc aatacgatgc gcgaagaatt ttacaccgtc caggctcctg gcgtaaccaa 180  
 agtatttgta cctgcagcga acgcttgta atgtcatgta aattacaagc caaggaactc 240

<210> 11130  
 <211> 174  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128f01d1  
 <400> 11130

attattgtca tttatgttaa atttcttctt cttatatttc tttatttttt aaatttttgt 60  
 gtttatattt tttatatttc tacattatca ttttttatat ttattttaat ttccttcttt 120  
 gtttaaatat ttttaattgc atatgttttt ttttttctg ttttttctt aatt 174

<210> 11131  
 <211> 550  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128f09a1  
 <400> 11131

gaagaaatag aaaaccatca accgcaaccg tgtaaatttc tggaactttc caccatgatc 60  
 gagatcctac acctgtagaa cactaacttc aatacccgaa tgatttaaac accgtattcc 120  
 ttcgacacca ttatcatcaa caacctcaaa ttccaagcac aagttctctg agttgttttg 180  
 tgagatagca catagcatag caaggaagga gtattacaac cgaaaccctg aagaaaaaaa 240  
 gagtagagga agaaaaaaca cctgcaccac caacgatggg tgtggattac tacaagatct 300  
 tgcaggttga taggagcgcc aaagacgacg acttgaagaa ggcttatagg aaacttgcta 360  
 tgaaatggca ccctgataag aacccaaca acaagaaaga agctgaagct aagttaagc 420  
 agatttccga agcatacgag ggtacttagt gatcccaaaa agagagcaat ctatgatcaa 480  
 tatggagaag aggggtctgaa gggtcaggtt cctcctcctg atgctgggtg tgctggaact 540  
 ggaactactt 550

<210> 11132  
<211> 267  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128f09d1

<400> 11132

gcacattatt aactgataaa ccacacaaaa ataatcaaat caaaattttt tcgcaggggg 60  
aatcaaccaa aatatattgg tatatcttac atctttacaa aaaaaaaaaa aagtagttcc 120  
caggggggaa tctgacaaat actatactat ctcacgctta ggcatttaag agttttctga 180  
ttcctgcttt ttgctcttca gtgagcctag ttgggaactt gatgttaaac tttatcctca 240  
aattccccctt ctttgatgga tcttttg 267

<210> 11133  
<211> 503  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128f10a1

<400> 11133

ctcgagccgc tcgagccgat tcggctcgag gattgctatt gccattggg gggtcagcgc 60  
tcctctctct ctctctctct ctctctctga actccgacgc acccttccat ctctcccttt 120  
cactccaacc caaacctgaa tctctgatcc cttctccctc tcctttctct ttctctcct 180  
ccctttgctg tactacatcc cagccacatt tccttttcac tcgattttc accccaatt 240  
ttcaccaggg aatccacgt taattttcgc ttaactgttg aactagggtt ttgtttattg 300  
ttcttggttg gtcaatcgag aatgcctcgg gggtgattcc gattcgtgtc ttagatctcg 360  
ttactgttgc gtccgtggat tgaatttggg gggagtttat cgatccctta gcggtgttta 420  
tacaatgtgg ttggagaagt atttatgagt tcggatgagt ccttgctttt ggaatcgctg 480  
gattctcgtc cagtgattca tca 503

<210> 11134  
<211> 242  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128f10d1

<400> 11134

ataaaaacaa aagttcaaat tttttcttct atttttgggt tttcaattca aatattaggg 60  
 ggatttgcaa gaaggaagag atgaaagacg cagggaccgt gaaaattaca ttttctttcc 120  
 tatcatattg tcgtcctttg agacattctc cttttaaaag gacgtttttc aagcctgatt 180  
 ttacataac tatagtacac ttagttacac tctactcttc cacacttttt ctataaaccg 240  
 gg 242

<210> 11135

<211> 348

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128f11a1

<400> 11135

ctggtcatta atgcatcaaa agatagggtg cccaatatca aattcaatgt agctaaagtg 60  
 ttgcagtctc tcattccaat tgttgatcag tctgttggtg agagtaccat tcgtccctgt 120  
 ttggttgagc tcagtgagga tccagatggt gatgttaggt ttttcgcctc acaagcacta 180  
 caatcttggt atcaagtcaa gatgtctagc tagatcagtt tgcagtgggt ctttagtttt 240  
 ttttttttct tataagattt acattttctt ctgtaattga catgacgcca acttgcccaa 300  
 tcctttggat cacattaatt gttgtgatcc tgctttgctt tcatttta 348

<210> 11136

<211> 342

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128f12a1

<400> 11136

cagaaaaggg gttaagcgag gaagactgtg tagaaactag aaaccctaga gagagagaga 60  
 gatgagaaga actcttctga gaaatgctac tctctacact cgcaaccttc tccatcactc 120  
 ggcccctgca ttcgacgctt caactcgctc ccaactcaga ctcttctgct ccaatgaaac 180  
 cccccaccg gttccccaaa tcgacgacgt tgaccacaaa gagctgaaag cgcagatcga 240

gagctacttc aagggcgacg agcaggtgct tccgtcgatc atggagacga ttctgaagcg 300  
 gaagctgtcg ggaaagcacg aagacaccga cgaccagctc at 342

<210> 11137  
 <211> 358  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220128g01a1

<400> 11137

cttatacgca gaacacttca aacatattcc ttaaccgaat taatattatc catttatggg 60  
 ctagagcgaa actctacctc tatctatctc tcctttaata ccacacaaat ttaacacact 120  
 ttattttcttc tacaccacta tcatgaacat cttataactt caagcacaag ttctctgaca 180  
 atgtctttca tatagcacac aacatatcag ggacatatga ttaccacccc gaccctgact 240  
 cacaatttta cccaggaaga acaaccacct gttccaccaa cctatcgacc tgagtactac 300  
 aatatcttgc ctgggggattg aatcgccaaa tactacgact tgaaaaacgc ttatacca 358

<210> 11138  
 <211> 99  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220128g01d1

<400> 11138

aaacaccaat agaaaaacac aaacacctgg caaaaaaggg aaagcgcaag ctcaaagaaa 60  
 ccattaccat aaagagggac gtgggaaaaa ggcccagaa 99

<210> 11139  
 <211> 250  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220128g02a1

<400> 11139

gttatacact gcatacatta aagagattgt aaattccaag catcgatata tttctattgg 60  
 aaacatggat gctaaaccat gaagaacaga tcttcctgag atattgagat actaggctat 120

tatgcgatag aatgcgtttg atataaacat cttccaccgt gctaattggtt ggcttggcac 180  
aagcattaac atcatcagag gaggcgtgta catcatctgt aatttggcag ccaacaaatt 240  
catatagttc 250

<210> 11140  
<211> 132  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220128g02d1  
<400> 11140

acaaaaataa ctgggattaa tgttaaagga catcctctta gaaaccatta ccataaagag 60  
taccgtgtca aaaacactta aactatagtg taaccatattg tggagatagc atcaaccact 120  
ttctaccata aa 132

<210> 11141  
<211> 376  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220128g03a1  
<400> 11141

ggtcgagata gaacatataa atcatcttac ctttacaat acattctttg aacttatggg 60  
gtgagttgaa ttataccttc aaaaactaac cattcccttc actactgcta aaaccaaact 120  
ttgtctacac atacctctat gatcaacatc gtgcaagatc atcagccttc ctatgatgag 180  
gtttgggaga gatcacacag catatcgagg aggtgagatt acatcgcggtg ccctgattaa 240  
caaaagatat gatgatgaga agcttacagg gccacaaacc atgggtgggg atcataacac 300  
gatgttgca gctgaatata tctccccaga cgacaactcg taaaaagcct gtactaaact 360  
ctatataaac tgggac 376

<210> 11142  
<211> 93  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220128g03d1

<400> 11142

atatatataa aaatataaaa attaatggga aaaatattaa accacaatct caaaaaaacc 60  
attttttctca aggggaatca accaaaaatat att 93

<210> 11143

<211> 579

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220128g04a1

<400> 11143

tttttatagt gtaattgtga actgtactga gttggacata ccgaggacat taaacagtta 60  
taatatttga tatctacaaa attggaaatc tggattaaac ttgaacttga gatcatggtg 120  
agggctatgt tatcgacttg agaataataa tgcataaaac actgagttac ggcttgcttt 180  
tccctactat ccattatagt tatgctgtat ttaaatgtca ctgtaaaaat atgatgattt 240  
tccttggtcg ggtctttttc aagaactgac tatttttttg ttggaagaaa tgaacatggc 300  
atttccagga ttacagagct atggcattat aatgaccaca gcacgttagt caaagatgaa 360  
tcccatggtt gataatgctt gatatttaaa ttcaatatct acttgatatt tgcttatgaa 420  
tcaccttctc ttttgtatat gctcaagtga acaagaatgg acagttcgat ttcttttatt 480  
atgccattag tcttcttctg atgagctcct tgagccaatc aacgggatac atactggtat 540  
agctggatga tcgatattga tgattctcaa gtatttgat 579

<210> 11144

<211> 154

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220128g04d1

<400> 11144

gtggcaatga taaacaatga aatctaattgc aaactgaaaa cggtacaac gctgtcacat 60  
tatagttgag gaggtgtgtg ataatttcct gattttcttc aaattacaga cccaattagg 120  
gaattaagcc caaacacact ttagactaga ataa 154

<210> 11145

<211> 251  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128g05a1

<400> 11145

cacagacaca gcataattca tacacatggt ttatgccaac catcgatatg tggttatagg 60  
 ttccactgaa gctaaaccaa taacccttaa tctcgaaggg agagaaaggg gccaaactatt 120  
 agcggctgac aaggcacccg ggccatgaga ttgttcaccc aactagttgc tggcatatcc 180  
 aaggacttaa taccctcaga gaatggcttt cagacagctg acgactacta agataagaac 240  
 tttcatgcat c 251

<210> 11146  
 <211> 147  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128g05d1

<400> 11146

catcattgat agttagacca ggattctatt gaaagaaatt acagacactc actcacgagt 60  
 ctattctcat atagatgggc gtgcgtcata taaccctaac tagtaagtat agatcttata 120  
 cagcatggtt ccctatctaa gttaaag 147

<210> 11147  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128g06a1

<400> 11147

cacatacaca gcatgcttta ggcctatagg caaatccacc catggatatt tgtgtatagg 60  
 atccattcaa cctaagccag cacctgctta ttaccagagc ctagataact accacccatc 120  
 aggggactcc gggctgctgt gcacataatc tttcacggga caggttcctg gcataagcaa 180  
 tgcagtacaa ccaccctga acggcacact atcggaggta aattacacgg catctagctc 240  
 tatgcttcca aggtcatg 258



002220128g06d1

<210> 11148  
<211> 154  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128g06d1

<400> 11148

atataaaaat aataataaccg gaacaattgg caaaaaagta aatgcacata gtcaaagaac 60  
acaatgcaaa aaactgtgct cagtgaaaaa aaccacaat ggtacagcaa gggtttcaaa 120  
ctctctggaa cccaccctgc ggaaaacaga tgaa 154

<210> 11149  
<211> 145  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128g07a1

<400> 11149

cacatctaca tcttacttat tttaaatca taattgcaac tcacgatatt agggtattgg 60  
ttcctttgaa ccataaacia cacctatcaa cttttactac agtattaact attacatatc 120  
taatttttgc aaaaacattg aaaaa 145

<210> 11150  
<211> 125  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128g07d1

<400> 11150

gaacacttat aatgaaagcg gggtaacga gaaaacaatc tatgccttac actctggagc 60  
ctttcctatt tattatggcg ctacaaacag atacggattt tggccccttc catttaagta 120  
atggc 125

<210> 11151  
<211> 541  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220128g08a1

<400> 11151

aagaaagata agccagaaga aattaaacat tccatatac aaaggtcacc caatttgagc 60  
 tatttttagtc ccaggatcta tttagacaaa agaataagca gtgtttcaaa caaagtgaac 120  
 cagactccaa aagtagtca agaatggaag tcacaaagaa agcctcttca atgtcatatc 180  
 aacttggtcc atgagcaaga tatgatggag ttaaaaaaga acagagtga aaaggtagca 240  
 tccttcccat cactaatgaa ctccaggagg aaccataaat cagtgactgt ttctgctgca 300  
 aaaagcattg atgatgtgcc tatttgtgga cagatttcaa ataagtgcac taaaacttct 360  
 cagcatacta gtagagaaca aaagaggagc tgggacatgg ttgtagacac tgcttctctt 420  
 ctgacaagga gtcaaggaaa gctttgcagc tttacaagg ccttcaggag actcgtttaa 480  
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<210> 11152

<211> 332

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128g08d1

<400> 11152

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 tggcaagacc aagtcagtcc tcgaggagag ctctttggcc acatgaacct ctgagagaag 180  
 gggttcacta aactctgccg aaattgttgc actgtctcac atagcaaccc ctttgccatg 240  
 gattttatatt tcaatgagac atcactacta ataaggacaa gttgtacaac attatacttt 300  
 tttccatatt gaagggcaca gtcaacgatg tg 332

<210> 11153

<211> 394

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128g09a1

<400> 11153

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 aactctgctt atttatctgc attaaagaca gcacctatgc cagctttgcc tccacctgaa 120  
 acaaataaac caatggagaa ggaaagtcgt aatgaaaata aagtcacccc taagaatttc 180  
 ttttcaagcg tgagagatat tgaattgctc tttattaaag cttcagaatc tggccaagag 240  
 gttccaaaga tgcttgaagc aaacaaagtt cactttcgtc caatattcca cgaaaaagaa 300  
 aacggttcta tgggtgtcctc gtttttgaag gtatgttctc catgtgggga ggaccaagc 360  
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<210> 11154

<211> 245

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128g09d1

<400> 11154

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 caaagaaaat caaggagggg agtataagtc ctggtacaaa accctttatt agcaaaaaaa 120  
 ttgcacccaa atttcttcac catcagaacc tagtacttac agcttttact gagtccctaa 180  
 ccatgcactc atagtctctc tagtgcaatc tatcagctcc cttctattct tagaactcaa 240  
 atgaa 245

<210> 11155

<211> 551

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128g10a1

<400> 11155

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 cacactcctt cttttccctc ttctgttgcc cgatcttctg cctccaagat tttggtattt 180  
 gggattgatc acctggagtt ggaaatggtt aaaagttatg gagtgttctg atttgcaaaa 240

gatatcatgt tgcggtgctt agagggactt aagcctttat ttgcttccat attacgatgt 300  
 tgtgacctgg atatataataa ccagccaaga ggccttgaag atcctgaact tcttgctaga 360  
 gagactgtgt tcagtgtgtaag cgaaatagaa gcactttacg agctcttcaa aaagattagc 420  
 agtgctgtca tcgacgatgg gttgattaac aaggaagagt ttcagttggc attgttcaag 480  
 acaaataaaa aagaaagtct gtttgctgat cgggtatttg atttatttga cacaaagcac 540  
 aatgggatac t 551

<210> 11156  
 <211> 267  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128g10d1

<400> 11156

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 ctcataattht aaaacaaact ctacacaacc ttggaatctt gcttttgaaa tttcgaaaaa 120  
 tgggaaccaa atgtgtctag aagtttgaag aaaaaatgaa agtaaaatcc cagcaaaaaga 180  
 atccacaaaa caaaatacat tattcaaaga tataacaaat gtaaggtaaa agcaaggctg 240  
 tctgccatgc ccttttttgt acaaaaag 267

<210> 11157  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128g11a1

<400> 11157

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 ccaaggaagg gactgatgca acaaagcaaa ggcaatccca agagcaggca aggaggaaaa 120  
 agatgtcaag agctcaagat ggaatactga agtacatgct gaaaatgatg gaggtttgca 180  
 aggcacaagg gtttgtttat gggataattc ctgagaaggg gaagccagtg actggagcat 240  
 cagacaatct tcgtgaatgg tggaaggaca aggtcaggtt cgatcgaaat ggtcctgctg 300  
 ccatagtga gtatcaagct gataatgcaa tccctggaaa gaatgatgga tg 352

<210> 11158  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128g12a1  
 <400> 11158

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 tccatttatc gatccacgtc catcccatc tttcttctcc tattctctct gttttctttt 120  
 cttcttctaa aaagtgagag aagaaaaaag ggaattgaag gaagaagatt gagaaaaaag 180  
 ggggaatgcc cagataatta attcggtgaa attcgggatt ttcgtaagtg ggtgtttctc 240  
 ttttcgtgtt tttaccttca gtgggtggaag gaaggggggt tgggttggtg agttgatgga 300  
 cttgatgagc gttgagctgt gtgtcatccc tggacggcat ggatg 345

<210> 11159  
 <211> 492  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128h01a1  
 <400> 11159

gggttttagg gcattttttc gcaaccagaa aacccccaat tctctttcca aggcttcgtc 60  
 aattctcctt ccaaagcttc caaatgcttc gtcctaatgg ctttaggctc cttcgatcgc 120  
 tgcccgaata actcctccgc cagcgaacg aacccatata tgatggagtg tgccaaaggg 180  
 gttataggac attgagttct ggtctttgta atccatccag agttattggg aatttttctc 240  
 caaatgttgg aaatgggtgt aatttgaaga acttgttgct ttttggagcc gcggatacat 300  
 attgggggac atctagatcc gttcatgggt cagcatcatt ggcaaggac tattacgaag 360  
 tgcttggtgt gagtaagaat gctagttctt ctgaaataaa gaaagcatac tatgggcttg 420  
 caaagaagct ccatccagac acaaacaag atgacctaag ggctgaaaga aagttcaaga 480  
 gtttcatggc ta 492

<210> 11160  
 <211> 252  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128h01d1

<400> 11160

gatcaataga cagatgaata tatatatagt ttcattgtga cactatgcag aaattatatt 60  
ctagtttacc catggtccaa tgataaaggc tactccttca tgggaccttg cttttgagat 120  
ttggaatcac attgcgtgac ttgcgccctt tcttatggaa taagggaact atatacagca 180  
ctgactagaa ttctagccca gaggagcatg aagggtattgc cttctaaggt cttacaaaaa 240  
aaatttttga tt 252

<210> 11161

<211> 404

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128h02a1

<400> 11161

ccagctacca tgtctctgtt tctgtcttag agcctgcttg ccagaagtta taatggccca 60  
tgatactgtt ctattacata tgaataaaag aacgacgggc tccctgacaa gctctgcgac 120  
cacatctcct atgctgagct ccatgcatgc ttatagctcg accctgacat ggagggcgcc 180  
tgctaaacct gtaccacaac caacatgtgg atggtttttag gagagatcac aaccagggc 240  
aacgtgtact atgataagat tgcgacgtgc acatgacgga acattgtctt tgcttctgat 300  
gatggatggc cttgactctg acaactactg gggactggac agcattgatc aaccgagcgc 360  
tgatattgct caagggtgggc acggacacct cacatagagg cctg 404

<210> 11162

<211> 237

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128h02d1

<400> 11162

gcagcgaatt ggggtccctcg ggtcgacgag ctcggccgcc cttttttttt tttttttttt 60  
taaagggata gttaactcta ccttagtgaa aagattgcgg atcgacagat tgcaaccacc 120



<213> Glycine max

<223> Clone ID: jC-gmf102220128h04a1

<400> 11165

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 agaaactgtc ctattcacat ctgaatcagc gaacgagggg caccctgaca agctctgcga 120  
 ccagatctcc gatgctggag ctgatgcat gcttggagct ggaccctgac agcaagggtg 180  
 cctgtgaaac ctgcaccaag accaacaatgg ggatggtttt caggagagat cacaaccaag 240  
 gccaacgtgg actatgagaa gattgtgcgt gacacatgca cgaacat 287

<210> 11166

<211> 213

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128h04d1

<400> 11166

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 tgaaagaaca ttctttgtgg gttcatcata taagaaattc tacgggtctg aaagaacaca 120  
 tactagctcc caaaataaag ggggaacttt tttaacaact tcctctaggg gaatacctaa 180  
 ttgcgtttca gggaagggaa cctcgggaaa att 213

<210> 11167

<211> 388

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220128h05a1

<400> 11167

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 cgtccgaagc aagcctttgt cttgtgtgtg ttcttcccc ttccgtcaga cttctaggaa 120  
 aatcagatgc atcgtgggta aatnttcctt tacaccaag aatgaagtca aggacttgac 180  
 aggttcaagt ttaaccagtt acaaacaatag cagtcttctg gaccccatag atgtttcttc 240  
 atcttcagat gatgaaaatg accttcctaa tgatgatgtg tctaataat tagtccttta 300



tgatcctgtg gcgaatggaa acaatgcaat tgaacttgca cctgatcctc tccagtgtga 360  
 acatccattg cttccaagaa gcaaacct 388

<210> 11168  
 <211> 274  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128h05d1

<400> 11168

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 caggcaccct tttttgaaca aaagattctt ccaggatgca aaatacattt ttattaagaa 120  
 taccacgaga atgacctcct catgaggaca agtgaaccgc ctttacctg cttttcccg 180  
 gaagctcatt acacctaaaa tgccctatctt aaaaggataa acgaactatt tctatatttg 240  
 acagtaataa gcaactgact gacttcacaa tgca 274

<210> 11169  
 <211> 484  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220128h06a1

<400> 11169

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 cttcatctgg gcttacagat tgagccacat acccgcatat ggcaaattggg cttggcttgg 120  
 tttgtttgct agagaactct ggtccggttt ctattgtcta tttggtcaag ccctccgctg 180  
 gaacatgctg ttcagaaaaa cttcatcaa tagactctct gaaagatatg agaatagctt 240  
 gccgagagtg gacatgttat gtgttctactg tagaccaat cattgagcca cccatgatgg 300  
 tgattaatac agtgttatct gtgatggctt atgactatcc agcagagaag ctacagtgt 360  
 atctctcgga tgatgcaggc tcagacataa ctttttatgc tcttttagag gcttctacct 420  
 ttgtcaagca ttgngtgccc ttctgcaaga gaattaaggt ggtatccgag tcacctgctg 480  
 ctta 484

<210> 11170  
 <211> 334  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220128h06d1

<400> 11170

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 tacaaatgag atcaaaggga atcaggggta aggcaaaaga aagaatttaa tctttctgga 180  
 tgaacattat tctagtccat caatattatc taactcacct tcacagttgc tgatgtagca 240  
 ttcccatacc aatcattctt accgggggtc tcaaaaactt ggggaaactg cacaaaagcc 300  
 atttctggc ctggctcttt atcccatgaa aaac 334

<210> 11171  
 <211> 429  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220128h07a1

<400> 11171

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 aaaccgccta catgcatgag gttcataaat cagcaaagcc ttgaaaagtt gctgtgtgtg 120  
 ttgaagaag acaacttttt cctttattat ttatttttct cactgagctt cagttaaagt 180  
 agctagctag ctagagggaa ttctgctggt ttccatggct aaagcaggaa agtttttggt 240  
 ttgatctcaa tcaagctcct gttatatagc agagagagag agagatgctg tgtttccaaa 300  
 gtaagagaaa tccaattgaa ggcctcataa agtttgatca agagggatag caatagcatc 360  
 atatctatcc atcacacat gaataagatc agcaacttga gttgtgttag gagctctgat 420  
 ctcatagat 429

<210> 11172  
 <211> 360  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128h07d1

<400> 11172

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 aaaattatct gaattgtttt gtgtacaagc tagattctca aacgatatac ttaaattggt 120  
 ttaatgtaaa aatctcacct catcttatca taatctatag aataccaagc taattcagta 180  
 tgtggcagg gcaacaaggt ggtcctaagt ttgctcaatc tcattggtat atttcttgtg 240  
 taaaaaatag gaaaagtga ctaatacaaa catcttaaaa taattaaata atatgaatgt 300  
 ataataagag agaatgatac tttcatcata taagtgatga tttttatgcc acaagatgca 360

<210> 11173

<211> 425

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128h08a1

<400> 11173

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 gactcacctt gctggaagg agcttctgct gctcgctttt ctcatcttga accttctgca 120  
 gctctgtctc aagaatatgt acacaaaaaa gaaagtagct ttggttctgt cattaaggag 180  
 cctcagaatt atctgcttga tacagaaaac aatatgaaaa aatcatgtgg aaattcaa 240  
 ggctttcaaa tgcatactgg aattgtctat caggacagaa gtccagcagg ttctccaagg 300  
 agattttcag taacaaagtt tgcacctgaa tattgcaagt caggtagtgc tctgaatgat 360  
 ggtccttttc aatctaagcc tagctgtgaa tttggacttc acaatatgtg gatattacca 420  
 aaatg 425

<210> 11174

<211> 258

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220128h08d1

<400> 11174

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aaacatttat tgaaccatat aaccaaactc ttaaaagggt tcaaaatcgt tctacaagct 120  
 tttctccaca tgttcccagt ctgacgcgaa gccatcggag tagtaagtag gaggtgaaa 180  
 ctcacagggt ccgctaggct gagtttcttg attgtcctcc gaatccagat gaaactcctt 240  
 tgggattgac ttgtccac 258

<210> 11175  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128h09a1

<400> 11175

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 tccaagaaga tttagatagt tagttgtcaa tataacttgc cttgttattc tgttctgtgc 180  
 ttacattcag gactagtaaa taatcattta attaaattat tcaaaacaga actattttgt 240  
 tgaatagttc ataagagaag gcagcccgat cttggttcac tcttacgccc gtaatttttc 300  
 tgttggaagc aatatttcag acaccttgat gtcacatgc catgacttga gatcgattca 360  
 acaaaacaat aatgaaggag aaatataaat tggcactc 398

<210> 11176  
 <211> 163  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128h09d1

<400> 11176

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 atgatgacct caagggggcc gaaaaattgg ttccaacaga aaaattacgg gcgtaagagt 120  
 gaacccaaaa cgggctgcct tctcttatga accttttaac aaa 163

<210> 11177  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220128h10a1

<400> 11177

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 tccaagaaga tttagatagt tagttgtcaa tataacttgc cttgttattc tgttctgtgc 180  
 ttacattcag gactagtaaa taatcattta attaaattat tcaaaacaga actattttgc 240  
 tgaatagttc ataagagaag gcagcccgat cttgggtcac tcttacgccc gtaatttttc 300  
 tgttggaagc aatatttcag acaccttgat gtcacatgc catgacttga gatcgattca 360  
 acaaaacaat aatgaaggag aaatataaat tggcactcnn aaaaaagaaa agcggggaaa 420  
 aatggatgga aaacgaaaaa gaaaaaaaaa aagggcgggc gccgact 467

<210> 11178  
 <211> 203  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128h10d1

<400> 11178

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 tgaacaaaaa acgggctgcc ttcttttatg aaccttttaa caaaatagtt ctggtttgaa 180  
 taatttaatt aaatggttat tta 203

<210> 11179  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220128h11a1

<400> 11179

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 gggaagccca acctgggttca gttgggataa caagcttgct ggaactcagg ttttggtatc 180

tagattaagc ttttttaagg caaaggacat ttogaattca tatagctctg ggctccatag 240  
 ttacaggaaa actgctgagg ctgtaatgtg tggctcttctt ccggattctc caacagccac 300  
 aaaaagcaga acagatgatg gtcttatatg ggtgagccaa tggaactctt 350

<210> 11180  
 <211> 328  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220128h12a1  
 <400> 11180

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 gtttacatgc ctgctgggca gctggccaaa gacattgaga aaatgtctga tgaagcagct 180  
 gctaactttg ctttcatgca gctcaaaaag atccttccag atgcttcttc accgattcag 240  
 tatcttgtgt ctcatggtggg tacagatatt aatacactag gttcctatag ctatgatgca 300  
 gttgggaaac cacatgatct gtagaga 328

<210> 11181  
 <211> 572  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130a01d1  
 <400> 11181

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 gtagaaaccc gccattacta gggcaccatc cccaacaag ccaaaggcaa cactgctccc 180  
 tactttatcc ataaaaagtc tagagaaaat atgcaataga tcaaacagca ataagcttcc 240  
 cactaatttg taaaatgcta aatctggtac ttgctctggt ctatcattat taagatgagg 300  
 gatgcactcc tgctttaatc tttatcttcg tccatgtcat ctgcaacaga cctgctcgtt 360  
 tgtgcagtta aatcagagtt ctttgaacta gccatgtcat catcatgatc cgaatcaaaa 420

tcttcaccac tccatatacg acgtttttggc cttacatcca tgtcctcctc ttcctcttct 480  
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gaaagttggt cccagtatgt attccgaatt tt 572

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<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220130a03a1

<400>      11182
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<210>      11183
<211>      297
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220130a03d1

<400>      11183
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<210>	11184
<211>	542
<212>	DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130a04a1

<400> 11184

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ggctctgcaat tcctgaccct gcttggttccg aatcgacagg cctgcagagg cattacgaca 240
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gcgccaccga ctactacgcc gctcacctca tcgacagcta cggccgctac gatcatgctt 360
acaaggccag gctatacagc tgcgccaacg ttactgaaaa aaactctgac gcgacgcact 420
atcaacgcta tcgagagcat acctgctaga tggaaacgct aagccgacta cgccaccgag 480
acatcgtaaa aatcctcagt aactgggcct tacgccgtga tcgcgtactg gactacgagt 540
cc 542
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<210> 11185

<211> 483

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130a05a1

<400> 11185

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gggaatgtga aacttattac cagcagcaaa atccacatta tgatcagaat cattatccct 60
agctttattc tacaagcatt agaaacatga aacttctcag tcaactagtt tatcaatggt 120
tacaaaggat cggattcgga ttcggactcc gtctcgggaa aattcgagaa gatttttcga 180
atttttcacc actgctttgt gcgcagcgat cggtttcgga ttcgggctcc gattttcgcc 240
tctcggaag agcttgggtt catttgact aatggagggg aaggaggttt gcgcgtcgga 300
gtcggcggtt gatggaagcc gcgacgtttg gagttcggag cctcgcctcg ctctctccgc 360
ggatcacctc gttgtaatgg tgaacggaat tctcggacgt gagacggatt ggaaatatgc 420
tgcggagaaa tttgtcaagg agttgccaga taaagtgttt ggtcactgta aggctatttg 480
aaa 483
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<210> 11186  
 <211> 314  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130a05d1

<400> 11186

ctccttattc ggcgcggctt ctttatcttc tttttgtctt gtcgttgta tttctgtgga 60  
 tttcttctgt ttctgccggg gggaaaaaca ctttttggcc ccccgaggcc tacgagcctg 120  
 cgaagcgtgt gtgagcctat tgaaggaagc caccgccgca caaagattcc ctcatgctgc 180  
 tatttgccgg ggggagctga acaatattgc cccacactct cttgtaaata gtacagcgga 240  
 ggttcaaccc ccgggggcaa cgatcaagtc cccccctaa atatagatgg cccaccccag 300  
 ccggcacacc cgct 314

<210> 11187  
 <211> 608  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130a06a1

<400> 11187

caacaacaac tatctctcat ccttcttctt tctgtatccg taacacttgc aacacacatg 60  
 gctacaatca ccaacacttt catattcaaa cccccatct ctcatcacc aaagcagctt 120  
 gtctattccc accgatcata ctctacgcag tctcacaaa tataaaaccc cctccggagc 180  
 gaattctcgg cggctgggtc cgaaagccac ggcgggtccc ggggccaaga agacagaaaa 240  
 gccgcacgag agagtccagc gagtccacag cgtggaggag ttcgagtcgg cgctcgaatc 300  
 cgccaaagac aggcttgtgg cgggtggaata cgctgccagc gacagcgagg agagcagcca 360  
 gatataccct ttcattggtg agctgagccg cagctgcaac gacgtggagt tcatcctggt 420  
 gatgggagac gagtcggaga agacgaagga gtcctgaag cgggagaagg tggagaatgt 480  
 gcctcacttc agcttctaca agagcaagga gacgatcacg aggaggaagg gattggtccc 540  
 gacatgctgg tagngatgt gctatactac ggtgacaacc actcttgtgt ggtgcagctg 600  
 cacaacgt 608

<210> 11188  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130a06d1

<400> 11188

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tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttg   60
ggttgttttt ttttttttgg gcccaaaaaa ggggggtatt taacatcccc ctaaaaaaa   120
aaaaaccac cccccattaa tttttttttt tccaaagttt ttaaaaaaac cctcccattg   180
accaattttc tcccaacgtt ctaagacggg gaaaagttaa attaacgggg gggttattgg   240
aaaaaccccc aatttttttt ccccccccg gggggggcct taaaagaaag caggttcctt   300
ttccaaaaag gttataaaac cggggggggg ggggccacc taaaagaag agaaaataca   360
ggtgggggtg aaaaaaatta atttgggcc ccaacccctt ggcccctgga aaattcccca   420
agggggcccc ctttgccaga aaccggcgac cgcctttaa tggtgccacc tttgt       475

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<210> 11189  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130a07a1

<400> 11189

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gaagattcca atcggagctc agaaaaaaaa gaaaccta atcgccgatcgc gtcgaaagtt   60
cgttgttgtt ctgtgaaatt gccttttttt tttttccgt tctgtgataa ttctgtgaat   120
aataacaata attgtgtgtg ttttgcctt ttaggtaacg tagctgaggt tccttttttt   180
gttataattg ttttgccgtt tgaagatagt cgtttcggtt actgctgcgt tttgtgttta   240
ctgggtgttt aattctgtgc aattttttta ttctacatgt ttgattgttt attttaggat   300
gcgtgatttg tttgttttct atgacttctg agttctggag ttgaaatgtt gtctaacgag   360
tttagaatcc gttgcttttg tggtagctag ccgaacaatt caatgcctga attccaaggt   420
tttgagttgg tttagtgtaa tttacgaaaa cc                               452

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<210> 11190  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130a07d1

<400> 11190

gggtaactag aaaacttata aatgggggacc caaaaaaaaaa gaaacccttt tacccaaatt 60  
 ggtaagggaa aaaaaacccg aactttaaca ctgggggggcc ctattccaac tggggggggcc 120  
 ccaacaaatt accctcccc cctccaaatt aacttttaag aaaaagaacc ctttttttat 180  
 ccctttgaag ggggctcatg gggccctcca aattaaaatt cccacgggcc cattcccggt 240  
 cccaaggggc acccatgctt tttcacagcc tttacgaatc acaacaactt taaaagaacc 300  
 taagggaggg cttttgacaa aaccaatgaa taatcggggc cccttgctca ccccatgtt 360  
 tggcggggat tggaggattt gcaggtcgga ccctcttggg ccccaaatg ggact 415

<210> 11191  
 <211> 388  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130a08a1

<400> 11191

gaagatgcca gtccaaactt gcaaaataat taaagctaca cgtcgatcac ttaacaagaa 60  
 ctatggtgga ctgtgaaatt gcctttcaaa cttgaaccgt tatgagcaac aagtttgaat 120  
 acaagcagca attgggcgtg tgatgcactt tcaggcacac agggctaatt ttcctaaggc 180  
 tgaactaaag gagaagctgt ttaagaagaa tgaattgaaa tactgttgta ctgtgtgtgt 240  
 cttgaaattt caaacacatt caggaggta ataatacact ggagatggta tgatttatga 300  
 tgcagcatat gatggcaaga tatatcatct cagatacaga cttaaatga acggctaacg 360  
 acaccaaagt accgaagtta tggaagca 388

<210> 11192  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130a08d1

<400> 11192

ggggaagggt gttttccaaa gaaaccaacc ccaatgaaat taaaaccgct tttccaaatt 60

tacaaagggg aaaaaaaccc cgaccttaaa gggggggggg cctattcctc cttgagtga 120

ccaacaattt gcaatcccc actccaaatt accctttaaa aaaaaaagg cgttgtcaaa 180

ccctttgggg ggggcccacc ggggaccaca aaaataaatg tggggtggca ccccccggt 240

aactatgagc cccctttctt tttcaccgc ttttgctcc acacctcct aaaaggaact 300

caagggacgg ctcttgaaaa 320

<210> 11193

<211> 536

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220130a09a1

<400> 11193

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ctgcttgccg agttattgca agactaaaaa aggaacgaga tgaagctagg tccttacttg 120

cacaagcaga gaggcagttc cctggttctg caccaaagtc cataacagca aatgcccccg 180

tcctgagcaa tgggaaaaga gctgctgagg atgaggatct ggctcctggt gcaaagaaaa 240

ttcatcctgg aatatcttct agcataattt ctgagctaac tgattgcaat gctgctcttt 300

cccagcagag aaagaagcga cagattcctc caactttggc tcctgtcgaa gctctagagg 360

catataccca gatatttagt catccctttc aaaaaacaaa caaacaaggc attatatctc 420

ttgatatcct ttattctaag gacttaattg caactggagg tattgatata aatgctgnta 480

tttttgaccg accatcanga cagatattat ctacactcag tggtcactct aaaagg 536

<210> 11194

<211> 413

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130a09d1

<400> 11194

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 cccctttttt tttatgggta aaaaaacccc ccggacaaga atggctcccc ccatttaaata 120  
 tcccgatcgt aagttttggc ccacaaacca gtttttccac taattaaaca atgggccgtc 180  
 caaaattttt tcggggcccc aaaagctttg ggggtttgac cccaaggca aaatttgagg 240  
 ctttttttcc ctaaggtgta ccccccctgac caagggtcgt tttgtttcc gcccaaagcc 300  
 cgaaagacca tttgttccct cctacatccc caacttgcct tggggggggc cagacctttt 360  
 attcaaagaa cccccccct tctgtaactt tcccaacccc accatggatt ttt 413

<210> 11195  
 <211> 538  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130a10a1  
  
 <400> 11195

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 ctgtttgccg agttattgca agactaaaaa aggaacgaga tgaagctagg tacttacttg 120  
 cacaatcaga gaggcagcta cctgaagggtg caccaaagtc cataacagca aatgccaccg 180  
 tgctgagcaa tgggaaaaga gctgctgagg atgaggatct ggatcctgat gcaaagacaa 240  
 ttcacactgg aatatcttct agcataatat ctgagctaac tgattgcaat gctgctctat 300  
 cccagcagac aaggacgcga cagattcctc caactacgga tcctgtcgaa gctctagagg 360  
 catataccca gatatttagc tatccctttc aactgcata cgaacaaggc attatatatc 420  
 ttgatattct ttattctaata gactgaaatg caactgaagg tattgatata aatgctgtga 480  
 tatatgaccg accatcanga cagatattat ctacactcag tggtcactct aaaagggtg 538

<210> 11196  
 <211> 381  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220130a10d1  
  
 <400> 11196

gaaacaaaag gaaccgtttt tcccataag cgggccacta aaaaaagggg ggggctcccc 60

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ccccctttttt ttatatggaa caaaacaccc cgaacaaaaa tagcctcccc catttaattt 120
ccccatagga agttttggcc cacaaaacag gtttccccct aattaaacca tgggggtccc 180
aaaattttttt tcggggcccca aaagccttgg gggtttgatg accaaggcaa aatttgcggc 240
tttctttccc taagggtggc ccccctgacc aagggtttga atgggtgccc cccaaaaccc 300
gaaagaccct ttggtccatt ccccataccc aaattgccct tggggggggc catctgtgtt 360
ttcaaaaaaac cccccccct t 381

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<210>      11197
<211>      541
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<223>      Clone ID: jC-gmf102220130a11a1

<400>      11197

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aaaaatgtca aggaaaaatg taaatcacta attggtaaaa aaaatgtttg ggagtatgtc 60
ttggatgcct ggagaaatct ggtagatagt ctttcggaac aacagtttga tgaatgcctt 120
aagaagtttg aaattgtttg ttcaccttgg ccaatgtgtg ttgcctatgc taacgaaaca 180
tggaataatc cccacaagga aaaatttggt acaacctaga canataaggt gatgcactta 240
ggaaacacaa caacaaacag ggttgaatat gctcattggg ctttaaaaag agtattacag 300
aatagccttg gagacttatg tagtgtttgg gatgccatgg acaacacgat ctcgctacag 360
cacactgaaa ttaaagcatc ctttgaaaca agtacacatg ttgtagaca tgtttttaaa 420
gttaccttat acaagaggct tcatggaatg gtntcaaggt atgctttaa ttacattgct 480
gctgagtctg agtgtgtaca ttatgctggc aagaatcctt cttgttgtgg ttgtgtcatg 540
a 541

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<210>      11198
<211>      500
<212>      DNA
<213>      Glycine max

<223>      Clone ID: jC-gmf102220130a11d1

<400>      11198

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taacaatcat ataaagcaat taaaaaagat aagatttact gtcactctt aagtatatat 180  
tcttttgatg gctttaagta aagcctcttt gttgatgggt ttgattaagt gatcgatccat 240  
tccagcttca atggacaata ttgcctcttt cctgtatta gctgttaatg caaagatagg 300  
aatgtgaaca ccatgagact tctcaatctc cttatccgt ctcgttgact catatccatc 360  
cattaccggc atctggcagg ccattaagat gaaatcacat ggacgattgg aagaattcct 420  
agttagaccc tcttcaactg tctgaaca 448

<210> 11201  
<211> 416  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130b01d1  
<400> 11201

gtaaaagata acgagaaatt gcacgatttg aaacatacaa aaccgcgggtt acggatcatc 60  
tacaatggaa aatctcctgg cggtagagata taaccgctgg ccggaactca aatttcactg 120  
ggagagtgat actatacagg ctcacatttc ataattgcga gataaatctc cttgtgagca 180  
cgcatttggg cagactgagg cttcacatac actcagagtc tcccctgcat gcttctcctg 240  
cataattaac catctctgga atatcatgtt ttggtgcaag cttatgtgca gaatttttat 300  
taaaacctag ggcgttctac ttcaactgtt attggtcagc tgtaaccaca cccacatctg 360  
gcgccgtttc tacactcgtg attgtgagaa gatttttctt aacacgggag acaagc 416

<210> 11202  
<211> 531  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130b02a1  
<400> 11202

ccaagactgg atgatccaat ttcaaggacc tttgagcagt gttcttcaga tacatttcag 60  
atagatggtg catgtgcac tccaatttgc tatgtgtacc tatatagatc tggggcagag 120  
gaaggttggg agcctgggaa tgtaaaaatc tatggctaca actcagagcc tgttactttc 180  
gatgacaaca cctacatccc aaatggcacg tggaatgggt ataactctgtg cgacactgct 240



aatcctgatt ttataagtca gttatttggg tccgaatcca cattgactta tttacatccc 300  
 agagatcgac agtgaaagac tgctatgatg ttatacactt gactcagaca ggcattggaag 360  
 tacaccttgt gcatatagcc gtgaaagggtg aaacttagta gtagaactct atgcggagag 420  
 cagggacatg agatgtgtaa ggtcaaagtc agttactttg agacttggtat tttatgcttt 480  
 gtgggagtta tgttaaaatt taagttaatg aaaggagaaa ttctagtaat a 531

<210> 11203  
 <211> 529  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130b02d1

<400> 11203

ataactaatt tttttccttt cattaactaa aattttaaca taggtgcgac aaagcataaa 60  
 atccaactca caaagaaact gactttgacc ttacacatct catgtcccta ctttgtgcat 120  
 agagatctac tactaagtta cacctttcac ggctatatgc aaaagggtgta ttgctatgtg 180  
 tgattaagtt aagtgcgtaa cattattaca gcagaaaact aagaacaaag cctagaacca 240  
 aactcatgag ccatttctga gggaatagtt ggtgtgaaga agaagaagga ggagtctcgc 300  
 acagattata cccataccac gtgccattgg ggatggaggt gttgaaatcg aaagtaacag 360  
 gctctgagtt gtagccatag attttcacac tctcaggctc ccaaccttcc tctgccccag 420  
 atctatatat gtacacatag catattggag atgcacatgc accatctatc tgaaatgtgt 480  
 ctgaagaaca ctgctcaaag gtccttgaaa ttggatcata caggcttgg 529

<210> 11204  
 <211> 504  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130b03a1

<400> 11204

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 gccgccgaag ttcgaccctt cccagatcgt cgacgtcttc gtacgcgtca ccggcggtga 120  
 ggtcggcgcg gtgagttccc tgggaccgga agatcgggcc cctcgggtctc tccccatga 180

cgatcggaga agatatcgac aaggaaaccg tcaaggactg gaagggcctc cgcgtcaccg 240  
tcaagctcac cgtgcagaac cgtcaggcca aggtcacggt ggtcccatcc gacgtcgcgc 300  
tcgtcatcat ggccctcaag gtgcccagac gtgaccgcat gagaacgaag aacatcgagc 360  
acatcgggaa catcttgcta gacgacgtca tcgagatcgc tagggttatg aggtcgaggt 420  
caatggcgaa cgaccttagc ggcagcattc aggagattct agtgacgtgc gtctacgtcg 480  
gatgccacgg tgatggacag gatc 504

<210> 11205  
<211> 447  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130b03d1  
<400> 11205

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aatgtgagca gagaaagaaa ctaatcagcc cataataata atatctctcg aaaccatcat 120  
gtaaattatc caaagcggta aaataacctt acacaaaacg atcgatgggt ccccaaatt 180  
gatattaaga agaacacgaa acgatctgaa gaaagacaaa agaaaaagag agaaagagag 240  
tcacaaagcc ttctctctta atcgagaggg acctcaacat caccatcggt aatctcttgc 300  
tgcaagtcct tgggatcctt tccatcaacg gggcatacga cggagacgca cgtcccgcga 360  
atcttcttaa tgctgccgct gaggtccttc gccattgacc tcggacttat aaccctagcg 420  
atctcgatga cgttgtctag cgagatg 447

<210> 11206  
<211> 556  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220130b04a1  
<400> 11206

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ccttttctgc taacccaaaa tctaaagtga caagtcctcc atcactcact ggaacttcaa 120  
tctcattagg ttcaattata ccgggcagga attaatgccc ggatattgat ctctggctca 180

ttgagcttgt tcagcaaccg attttttcagg tcaggtgtgc ataaggctgg gagtccaacc 240  
 aaacatgata agtcaggtaa tgagcagttc ttgaatgaac ttagcatatg gattgatcca 300  
 tgaacaacgt gacctcaagg ctgtgaatgt tcagcaccgc gaagatggcg aatctaata 360  
 cccagccatc tatcggatca atgataatct ggaatactct gttgaagttt atgagtggtc 420  
 tgggacagca tgggaacctt acgtagctga tgatgttcaa gtgcaatgtt acatgatgag 480  
 cccctatgtc ttgaagactn tatcaactga tggcaagggc cgttatttca catcatttaa 540  
 ggttcagat gtctat 556

<210> 11207  
 <211> 493  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130b04d1  
 <400> 11207

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 caaatcaaaa ttttcgatct caaaataagt tcaaccccg actacaaact acagtatctt 120  
 aaagcaaagg ttacatcta cttgctgtat agatgaactg cagtgaagat gaagaaaccc 180  
 accatcattg aaaatgatgc tccataatag ggataggctg ctggtataaa tctttcatat 240  
 tcattgtgtc taaagggacg aacaggaatc tgctttgata aagataagct tgtatatcca 300  
 agtttttcgt actcaacttt gaattggaaa accccataga catctggaac cttaaagat 360  
 gtgaaataac ggcccttgcc atcagttgat aaagtcttca agacataggg gtcacatg 420  
 taaaaatgca cttgaacatc atcagctacg taagggtccc atgctgtccc agaccactca 480  
 taaacttcaa cag 493

<210> 11208  
 <211> 612  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130b05a1  
 <400> 11208

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gctacaatca ccaacacttt catattcaaa cccccatct ctcacaccc aaagcagctt 120  
ctttattgcc accgctcttc tctacgcttt ctcaccaa attaaaacccc ctacggagcg 180  
aattctcggc ggctggttcc gaaagccaca gcggctcccg gggccaagaa gacagaaaag 240  
ccgcacgaga gagtccagcg agtccacagc gtggaggagt tcgagtcggc gctcgaatcc 300  
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atataccctt tcatggtgga gctgagccgc agctgcaacg acgtggagtt catcctgatg 420  
atgggcgacg aagtcgagaa gacgaaggag ctctgaagc gggagaaggt ggagaatgtg 480  
cctcacttca gcttctacaa gagcaaggag aagatacacg aggaggaatg gattgatccc 540  
gacatgctgg taggcgatgt gctatactac ggcgacaacc actctgggtg gtgcagctgg 600  
acaacgtgga ga 612

<210> 11209  
<211> 359  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130b05d1  
<400> 11209

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ttctaaaaaa gggaaaacct taattaaggg ggggtaatg gaaaataacc caaatatatt 180  
ttcccccccc ggggggggac tataaaaaaa aacaagttcc tttttaaaaa aggttaaaaa 240  
acatggggtg gggggggcgg ccctcatgga agagaaaaaa aggttgggga gagagaaaat 300  
taataagggg cccaacccc ttggggcccg gaaaattccc caaagggcc ccctttggc 359

<210> 11210  
<211> 484  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130b06a1  
<400> 11210

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atgcgtaaca cttgcaacac acatgggtac aatcaccaac actttcatat tcaaaccccc 120  
catctctcat caccctaaagc agctgcttta ttcccaccgc tcttctctac gctttctcgc 180  
catatttaaa acgcggtacg gagcgaaatc tacgcggctg gttccgaaag ccacggagggc 240  
taccggggcc aataagacat agaagccgta cgagagagct cagcaagtcg acagctagcc 300  
atattcatag tcggcgctcg aatgcgcaa agacaggctt gtggaggcgg aatacgctgc 360  
cagcgacagc gaggagagca gccagatata ccctgtcatg gtggagctga cccgtagctg 420  
caacgacgtg gagtccatcc tggatgatga cgactagtgt gagaagacga atgagctcct 480  
gaag 484

<210> 11211  
<211> 248  
<212> DNA  
<213> Glycine max  
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<400> 11211

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gtctaacaaa ggagaaagct tacttacacg gatggcgctt ggcaaaactcc ccaaattcta 180  
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acatgggt 248

<210> 11212  
<211> 487  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130b07a1  
<400> 11212

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agtaacaata attgtgtgcg tattctcttt aggaacgta gctgtgggtc cttttttttt 180  
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 gtgattagta cgttgtctat gactactgtg ttctggagtt gaaatgttgt ctaacgagat 360  
 tagacgtctt tgcttttgtg gtacttagcc gaacaattca atgcctgaat tccaaggttt 420  
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<210> 11213  
 <211> 467  
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 <213> Glycine max

<223> Clone ID: jC-gmf102220130b07d1

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 caacaaatta cccttccctt ctccgaatcc tcttttaaga aaaagaaccc tttttctatc 180  
 cctttgaatg ggggtcaatg ggccctccaa atttaaattc cggcgggccc atccacgtac 240  
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<210> 11214  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130b08a1

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 gcaggaagca attggtcggt gatggccctt catccacgca gggcagatgt taccaaggct 180  
 gaacttaagg agaagctggc taggatgtat gaagtgaag accctaatac tgtatgtgtc 240

ttcaaattcc gaacacattc tggaggtggc aaatccactg gatatggttt gatttatgat 300  
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 cgaggagtag agaaaaccaa cgctaccgat gctgac 456

<210> 11215  
 <211> 309  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130b08d1

<400> 11215

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 aatggataca taacgtcccc aagccaagtt ggcgcttggc caaaaaaagg gtttgttcaa 180  
 accttttcat tgtgccccat cgggggggaa aaaaaaaca tgggtcttgt ttagcccccg 240  
 gagttgggaa cgcccattgt ttgtctcctt ttttggcatg ctcggttttc ttaccaatga 300  
 gcaaggggc 309

<210> 11216  
 <211> 461  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130b09a1

<400> 11216

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 cacagattgg ctgggaaaaa cgtgaaaggc ctttcgtcgc aagagtttgc tgtccgtaat 180  
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 gatgggcatg ttggtgatga atacttccaa caacgtgaac tatcaagtca atttaggcag 360  
 gaatatgaaa tgcgtataat gaaacatgac caaggattgg atgcgattgc tgaatgattg 420

gatacatcga aaaatatggc acatgatatg aatgaggaac t

461

<210> 11217  
<211> 463  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220130b09d1

<400> 11217

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ttaagcctaa catttgtatt cttaagggca gaggatgcct tgtccacctt agtggcaatc 180  
ccgcccataa ggggaacttg tctatccagt tctcattca tatcatgtgc catatttttc 240  
aatgtatcca atccttcagc aatcacatcc aatccttggc cctgtttcat tctacgcatt 300  
tcatattcct gcctaaattg acttgattgg ccactttgtg ggaagtattc atcatcaaat 360  
cgcccatctg aatcaaactt aatttcagga cgggaggcat aagctgcca ccctccagtt 420  
tgttttggca caggaggagc cccatctggg attgcttggg ttc 463

<210> 11218  
<211> 528  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220130b10a1

<400> 11218

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aagtttgaac cagaaactgg agtgaaagct gatgagaaaa caaataccac tgagacaatc 180  
tgcacagatc aggaacagct tatagacacc tcaaaagaaa cttccaatgt acgcacatcc 240  
gatgtatcta cagtagctag aaccgagaag tcgggttttg aagagcttcc taaagaatta 300  
aatgaaatga aaattagaga tgagaaaagc aaaaacaaca gtgaaaagga tatagaagca 360  
actgtagtga gtggtaatgg aacagaaaca ggtcaaataa ttacaactgc cattggcggg 420



003360 E F E 560

cgagatggac aaccaaagca gacaatctct tacatggctg aacgtgtggt aggtactggt 480  
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<210> 11219  
<211> 457  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130b10d1

<400> 11219

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gaactcatta tctttcacaa ctgaggcacc aaatttataa actacttcaa aaaaaaaaaag 180  
gcttgcaacc ctgtatcacc aggtagtacc actttatcca tttgagtcac ctgcagatct 240  
ttacaagtta cttgatagaa ctttccaagg tgtcgagggt tctcactttg tatagtcaca 300  
gttggtgactt gtgcagagaa gaggctgaag aacagaacag aacaggctgg tcaggggcca 360  
tgaccaagag ggtgtccaat aattcaaac ccatttaca tgccctagag atgtttcaac 420  
tttgaattg attcaactcc ttgcatactc aggaatg 457

<210> 11220  
<211> 334  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130b11a1

<400> 11220

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tactaagctt gacattgttt gttcaccttg gccaatgtgt gttggctatg ctaacgaaac 180  
atggattgtc cccacaagg aaaactttga tacaacctac acgaatatgg tgatgccctt 240  
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<210> 11221

[illegible]

<400>	11221
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<210>	11222
<211>	468
<212>	DNA
<213>	Glycine max

<400> 11222

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gtcttcagat	gattacaaca	ccaaacacac	ccttaagctt	aacaacagtc	aggcatggat	180
catatacacc	tcctctccaa	tctacttgaa	ccatgttcct	tctgagggtta	catccaagcc	240
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tcttgacaag	ttcagttctt	gttacctgt	gtctggtgat	gcagcactca	agataccttc	360
agtgttgagt	ttaaattggca	aagaaacggt	ctgtggactt	gctcatgctg	gctcaccctc	420
ttcatgctaa	gcttctgtat	atgatcgtga	tgttactgcg	ctgaatga		468

5134



ctcacacatg ccctatctt ccttagctac ctagattatt cacttcaatt cctcacaagc 60  
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tgctggaatt agagaggaaa ctgggcagca actgggaggg cgtattagt ntagtgggca 480  
agtgcaaaat taccaaagca cagtgtctca agtggtaaat gtactgggat atgaggactc 540  
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<210> 11226  
<211> 523  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130c02d1  
<400> 11226

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agagagaaaa cttaagactc ttatgcctta aaaggagtag cacattcgaa gaacattaaa 180  
tatggttggt gcagagctta atagccacta cccactagaa catgttgatt gttcagagat 240  
catatctgag ctaagcgttg gatatcaaca gggtaagcat ctgatgcaga ttgagcactg 300  
taagctctct gagccacaac aacattgcca gcttcagtag gatgaaaagc atcccaaaac 360  
aagtactctc tctgttttg gcatgggtgt tgcatgggaa gacatgtaat ttgaccattg 420  
ttccttccta cccacagca cccagcattt gtaacactga aaccataggc tgaagggttg 480  
cttaataat atgaaagatg ccataagagt taacatagat gac 523

<210> 11227  
<211> 617

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130c03a1

<400> 11227

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 ttgtctagat caaatagcac tgaggcttca ttggcaaagg ataattcctc taatgatgta 180  
 aaaaatgggtc aaggggtacaa aggtcatagt atgcttgctc ctttcacggc tgggtggcag 240  
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 aatgggaaga aatatcttga tgcacttgct ggtctatggg ccacttcttt agggggaagt 360  
 gagccacgcc ttgttgatgc tgccgttgca caactaaaga agttgccatt ttaccattcc 420  
 ttttggaatc gaaccacatt accttctttg gatctagcaa aggaactcct agaaatgttc 480  
 acagccagaa aaatggggaa aggttttttt ggtaaatagt gatcagaagc caatgacact 540  
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<210> 11228  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130c03d1

<400> 11228

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 aggctaagc tacttgctgct gagacttgag ctctgtacc ttcttttccg tttctttcaa 180  
 agctttccca taaatgctga ttaactcttc aacttctcca ggagatataa tatatgggtg 240  
 agacatcatg atgttatctc ccgcaacacg aactaacatc ccatgcttct cacattgtgc 300  
 tccaaaatag gcacctattc ccattcagg aggaaatgga tcattacgtg acttggtgtc 360  
 tgtgaactca gtgcccagaa tcaagccagt tccccgtatc tctccaatga tgggactgtc 420

agaaaaagct tttatgccat cttgaaacct tggggcgatc ttgttcactt ggtcaacaat 480  
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<210> 11229  
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<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220130c04a1

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acacgagtct gcaacaccga gcatgttcat ggttggga 578

<210> 11230  
<211> 549  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130c04d1

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 caacaaaatc gcttgcgtgg taatagatcc atttacctgg tccgttcaga aaacactggg 480  
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 catgaacat 549

<210> 11231  
 <211> 570  
 <212> DNA  
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 <223> unsure at all n locations  
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 aatgggcaat acattgatcc tattccatgg ccacttgcca aaacaaaacg ctaaaaataa 240  
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 ggttaagtga ccagcttcgg ggtccatgta aaaatagcat gacagggact ggaggtgtct 480  
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<210> 11232  
 <211> 485  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130c05d1

<400> 11232  
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 ttccattatt agacctcaac tagacccccct cccaacaac accaacagaa ccaagacacc 240  
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 cccctcacca ccacaaccat caaaaagtcc acattgttat ctttctttca gccacaatat 360  
 tttgtataaa gcttcaacaa atgctgtggc agtccttagt ttcaacaaat gatgccatgc 420  
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<210> 11233  
 <211> 596  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130c06a1  
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 tctttcttta actccgtcat cttgttcttc ttgtgctcaa cctctccgaa acctttcact 180  
 caagttatgt gcaaaaattc agagcgttgg agttggaaga gaaggtccag cttccgatcc 240  
 caaggccggc gtcttactct acaaacctaa atcctacgaa gttctcgtta gcatgcccgt 300  
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 tcaacttgcc ttgactgttg tacgaaagct caaggaaaag aaggaaacca gagcttgcat 480  
 agtattccct gataaaccag aatagcgccg ggctgtcaa tgatcaaagc agctctagat 540  
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<210> 11234  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130c06d1



<400> 11234

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<210> 11235

<211> 379

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130c07a1

<400> 11235

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caggatgctt tgcgcattga gtgtgatcac atgtacaagg ccgacacaac ctatacaacg 180
tgtgagatac tgaaggatgat acggttacgg atgcatcagt catggagtgt gtgcttcaca 240
aacgtggctt tgactaagat tgaagctagc cagctataag catataggct ctggcattga 300
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<210> 11236

<211> 320

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130c07d1

<400> 11236

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ctacttctgt tatTTTgatg aggcaaggac taacatgctg taccCGgtta cgcttatatg 180  
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 catcactttt agattccacc 320

<210> 11237  
 <211> 612  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130c08a1

<400> 11237

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 actatcttca aagtcttggc gcgaaaactt cctgagtctg cttattccga atcgacgggc 180  
 gtggagaggg atgaggacat agaggatctt acggaggagc acgagaaggt agaagaagaa 240  
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 atgtatggaa ctagagccag tgtttacatc aaaatgaaga aaccaatgc tgcgatccgt 540  
 gatgcaaagc ctgacttgga gaataatcct gattctggct aaggatacaa atcacgtggc 600  
 atagcacgag ca 612

<210> 11238  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130c08d1

<400> 11238

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tattttttcc aggcgacaaa gcctagattt cttagaacat aacacctcac gccacaatta 240  
 ttttcttaac gaaacactaa aagaagact atataggcta taatagcaaa gtagcgaccg 300  
 aaagaaacac gaaggtgtgt ggtctcaact ctcaaggag aggaagactg ggtccttcac 360  
 cgttaccagg acctccgagt ccgccaagcc caccaggccc accgaatcct cc 412

<210> 11241  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130c10a1

<400> 11241  
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 aattggaatt atttg~~tt~~tttc ttattaggcc t~~at~~cctgaag ccaaaggaaa tgagatcgga 120  
 attcctcggg gaatcccaat tccacattat caagagttaa ggatgcagac acgatcatat 180  
 atgaaatgga atcattggga gacttatgta agcctatccc gaagccacac gacatgagat 240  
 cggaactcct cggggcattc caatttcacg tctctgggac gtacggaggc atacatgctc 300  
 atgtatgagt tgcaactatt tgatcacctt attaggccta tcttgaagtc agtggctatg 360  
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<210> 11242  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130c11a1

<400> 11242  
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 atgggggaag aaggggtgcaa ggtatgtgtt acaggaggca gtgggttacat tgggttcctgg 180  
 ctcatcaaga agctactggc caagggtac acagt~~tt~~catg caactctcag agacttgaag 240  
 aatgagtcaa aggttggcct cttaaagagc cttccacaat cagaaggaaa actggtgctg 300  
 tttgaagctg atattt~~ta~~caa cccaaatgat tttgaccttg caattgaagg ctgcaagttt 360



aactttctct ttggagcttc ctgctccacc tggttggaag aagcagttca tcccaaagaa 240  
 agctggcacc cccaagaaaa atgagattgt gttcactgca gcaacaggag aggagatcca 300  
 taacaggaag cagctggaaa aatatttgaa agcacaccct ggtgggccag ctgtatcaga 360  
 atttgactgg ggcactgggtg agacccaag aagatctaca agaattagtg agaaggcaaa 420  
 ggcagctcct tcattctgtaa gtgagccccc aaagaagcgt actaaaagat catcagcctc 480  
 acaaaaggaa acttcncagg aagaaaaaga acaggagatn aaggaaaagc ggaatgcaga 540  
 agctgatgac accactaagg atgataatga t 571

<210> 11245,  
 <211> 585  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130c12d1  
 <400> 11245

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 atgaatggta ccttataggg ctatgttcta caattgtata ttgtttcaag aaacaatcag 180  
 ataaataaca gtaagaaaaa ctaaagtcac cttcaaacac agatctaaag gggtcagaat 240  
 gagaggagag atgccgagaa cttattaatc tattccctgc tccaggcttt tgacctcacc 300  
 agttcagctc ccatgatttc cattcacagt caactctgtt tcagccttct tgtttatctc 360  
 atcaagcttg tgatgttctt caccaatcac ttttgttctt tccatttccc caacttcaaa 420  
 ttcatgagta cttttgacgt gttcctcttt atccactcct tccacttcaa ccgttttgtc 480  
 tgcagtagtg catgtttccg atttctctgg ctccccagat ccacgatatt cttttgtctc 540  
 ttctgtggt tgctcaatct ttacttcatg ctttctcaga aaaac 585

<210> 11246  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130d01d1  
 <400> 11246

002260" ETTES60

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 caaattacac ctgtacttgt gaacccatga acatttagca tatatgaata tgtaagagaa 120  
 agagagaaaa cttaagactc ttatgcctta aaaggagtag cacattcgaa gaacattaaa 180  
 tatggttgtg gcagagctta atagccacta cccactagaa catgttgatt gttcagagat 240  
 catatctgag ctaagcgttg gatatcaaca gggtaagcat ctgatgcaga ttgagcactg 300  
 taagctctct gagccacaac aacattgcca gcttcagtag gatgaaaagc atcccaaac 360  
 aagtactctc tctgttttg gcatgggtt tgcattggaa gacatgtaat ttgaccattg 420  
 ttccttcta cccacagca cccagcattt gtaacactga aaccataggc tgaagggttg 480  
 cttataatat atgaaagatg ccataagagt taacatagat gac 523

<210> 11247  
 <211> 586  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130d02a1  
 <400> 11247

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 cctaacccta aggtcttctt cgacatgacc atcgccgggc aatctgctgg ccgcatcgtg 120  
 atggagctct acgccgacgt tactccccgc accgtcgaga actatcgcg gctatgcacc 180  
 ggcgagaagg gcgtaaggcg gagcggcaag cccctccact acaagggtc gtccttccac 240  
 cgggtgatcc cgagtttcat gtgtcagggt ggcgacttca ccgtcggaaa cggaaccggc 300  
 ggcgagtcga tttatggcg caagtctgcc gacgagaact tctgaagaa gcacaccggt 360  
 cccggcatcc tctccatggc gaacgccggt cccggaacca acggatctca gttcttcatt 420  
 tgcacggaga agacagagt gctcgacgga aagcatgtcg tggtcggaca ggtcatcgaa 480  
 ggattgaacg ttgtcaagga catcgagaag gtcggatcca gctacggcag gacctccaag 540  
 cccgttgtca tcgccaactg cggcctaactc tcttagacga cgttga 586

<210> 11248  
 <211> 417  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130d02d1

<400> 11248

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ctcataacag actccattca ctactctat gaaccccaac caaccaacca catgatactg 120  
atattgaaaa ggaaagggga agggtttcga aatgatatcc ttaacaccac aatcccctaa 180  
acgacgaccc gagaaagaaa agaagagaaa aaaaaggcaa aaacgacacc gaaagaaata 240  
acacagattc agagattaaa gccgcgggtc aacgtcgtct aagagagttg accgcagttg 300  
gcgatgacaa cgggcttgga ggtcctgccg gagctggatc cgaccttctc gatgtccttg 360  
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<210> 11249

<211> 595

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220130d03a1

<400> 11249

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gaggaaaaaa acgttgaatt ggaagtggg aatagcagta aggacactct tgtgaacgag 180  
gaaaggaagg aagtgaagg ctcaagtctg ggttcggttt cgaacaggaa ggacggaccg 240  
aggtttaagg atttgggtgg gatgaaggag gttttggagg aactgaagat ggaagtgatc 300  
gtgcctttgt tccaccccca attgccaaga cagttgggag tgagaccaat ggctggcatt 360  
ttgttgcatg gaccacctgg ctgtgggaag actaaacttg ctcatgcat agctcatgag 420  
actggtcttc ctttctatca gatttcagct actgaggtgg tttctggagt ttcaggtgca 480  
tctgaagaaa atattagaga gctttttgct aaagcgtaca ggtctgcgcc tgctattgtc 540  
tntattgacg agattgatgn cattgcatct aaaagagaga atttgagcgt gagat 595

<210> 11250

<211> 451

<212> DNA

<213> Glycine max



<223> Clone ID: jC-gmf102220130d03d1

<400> 11250

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aaaaattatg tcttgactgc aggaaacatg tacatctcat tacaaaagca aatactctaa 120  
atacttgacg ctcatataaa tgatttcttt caccocatc tttaaaggaa tgtcgacacc 180  
tgctaaaata acaaagtga tgatcatgctg ctcatgctgc tttaaagccc tctgacaaat 240  
gctgataata ctgcttttgc ctgtctgaca cagacggaga cactttactc agtgctacct 300  
caaatggtg cctcttgatg gtcctcttga tggatcaatgt atcacaagtt gtctcaatag 360  
aggatcaatct ctcttcaaga gcagccattg ctgcttcatt catcaatgca gcaagatctg 420  
cgccacttag gttttcacac gcttccattt t 451

<210> 11251

<211> 71

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130d04a1

<400> 11251

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agtgttgac t 71

<210> 11252

<211> 71

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130d04d1

<400> 11252

agtcaagcac tgaactcaaa gtttcaacag ggataagagt accacccatt attgaaataa 60  
tcaactcaaaa t 71

<210> 11253

<211> 609

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130d05a1

<400> 11253

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catttcacatc ccttcttaca acctcacttt ccttcttctc cgctcaggct cacttcaacc  120
tctttcttta actccggcca tctggttctt ttttttgctc aacctctccg aaacctttca  180
ctcaagttct gtgcaaaaat tcagagcggt ggagttggaa gagaagggtcc agcttccgat  240
cccaaggccg gcgtctcact ttacaaacct aaatcctacg aagttctcgt tagcgatgcc  300
gacaattccc tctcttatgc tcttcaagac ggaaaacttc gcctcgaaat cgatttcccg  360
cctttgcccc acaacatttc ttcttatacg ggatcttcag atgagttcat tgatgccaac  420
attcaacttg ccttggtgtg tgtacgaaag ctcaaggaat agaaggaaac cagagcttgc  480
atagtattcc ctgataaacc agataagcgc cgggcctgtc aattgttcaa agcagctcta  540
gattcaattg atggcattac cataggttgc ttagatgatg tccctactgg acctatgact  600
tcatttttc                                     609

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<210> 11254

<211> 570

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220130d05d1

<400> 11254

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cgaaatatta acaaataaaa ataaaaattg ggcagttctg caggaaatgt ctttcttgaa  180
tatacgggag ccattcaat gactactaca tgcagatgca ataaaacagt ctcttctaac  240
agtgtactac tcaactccgc catgcagaag atacttctga atcaaatct tttcccacc  300
acgtgcttgc cttgtagcct cttogaagaa attctagga acttcctct ttttcttgaa  360
gtcccaagac cctcaacaat tcctctttgg cctcgccaag gctgaagcgg tttgacttt  420
ctgctatgca agcataagaa ccatctgctt gtttaagcat cacctgccaa ggacctgngt  480

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actggcggaa tacagctcca ctgtaattga caatataagg tgctattgca actgtctttg 540  
 aatactctct tgattcgatg tagaactctg 570

<210> 11255  
 <211> 577  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220130d06a1  
 <400> 11255

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 tgaataatgt atatgatgat gtacaggatt atgttgagaa cacgaggaat tgtcgtcctc 180  
 ctctgccttc aggaaatggg tctcttgatc atcctttatt ggtccaatgt gactctctca 240  
 agtcaagtc accacagaca agtagaaact cagattcaac ctctaccag tcaccatcta 300  
 gttctagtgg agaagctcag agtcgcacag atcgaattgt tttcaaacta tttggcaagg 360  
 ctccaaatga tttcccccat gctctccgat cacagatcct taactgggta tcccacagtc 420  
 ccacagagat agagagctat ataaggccag gttgtatcat gttgactata tatcttcgcc 480  
 tagaaaattc tgcttgggaa gagctatgct acaatctang acccagcttg agaaagcttg 540  
 ccgcgtcaaa tgatngtttc tggagaacan gatggat 577

<210> 11256  
 <211> 466  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130d06d1  
 <400> 11256

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 aaatgccggc aagcttacct tattatcttt gcatatacat gaactaataa caccatctac 120  
 ctaatatattg ctagatagaa cagtgagcat tttgtgccga acatctgaag tgaaggtaaa 180  
 ccttcctac atattttgat gacagctact atcacagatg tatatactta gaactaaaga 240  
 ctttcaaacc caaaaaacaa aagtgcaggc ctactgcaaa gaatacctga tatacaacat 300

tagattgacc catactccaa tgattcccag ctgaagggct ggaatacata ataaactttg 360  
 ggtgagcttt tgaagagcaa agctacacag acacacacag ctgcaatggc caccattgac 420  
 agcattgctg gcctgaaaac cagtgccctt ctcatgccac cataca 466

<210> 11257  
 <211> 582  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130d07a1

<400> 11257

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 tcgaacagtg caagtccaac ccttccctcc tcgctgatcc ttactctcc ttcttccgcg 120  
 actatcttca aagtctcggc gcgaaacttc ctgagtctgc ttattccgaa tcgacgggcg 180  
 tggagagggga tgaggacata gaggatctta cggaggagca cgagaaggta gaagaagaag 240  
 aagaagaaga ggacgatgta attattgaat ccgatgttga gcttgagggt gaaacctgtg 300  
 agcctgatga tgatcctcca cagaagatgg gagaccctc tgtcgagggt actgaagaga 360  
 atcgtgatgc atcgcatg gcaaaaatta aagccatgga tgctatttct gaaggtaagt 420  
 tggaggaggc gattgagaac ttaacagaag ctatttcact caatcctacc tctgccataa 480  
 tgtatggaac tagagccagt gtttacatca aaatgaagaa acccaatgct gcgatccgtg 540  
 atgcaaatgc tgctttggag aaataatcct tgatctgcta ag 582

<210> 11258  
 <211> 455  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130d07d1

<400> 11258

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 atttcggtaa gattaaaaat gcaataaaca ttaaataccc gatgccagag ggctggaaag 180  
 ttgaagtctc aaataactta caagcatcta aaagtattca cttgggacca cctccaagtt 240

tggatcatcat tttcgcaatt acaggagcta cctttggatt tgattggtgc ttggcaaat 300  
 tagcaagggtt cttcataaca tcttgaagag cagccataat ctctggatca ccaaagacg 360  
 ccatcagttc agggctactc aagattttgc taaaatcaat gtttccaggc atgccaccag 420  
 cccctgggaa tccccaggc atgccaccag cccct 455

<210> 11259  
 <211> 613  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130d08a1  
 <400> 11259

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 actatcttca aagtctcggc gcgaaacttt cctgagtctg cttattccga atcgacgggc 180  
 gtggagaggg atgaggacat agaggatctt acggaggagc acgagaaggt agaagaagaa 240  
 gaagaagaag aggacgatgt aattattgaa tccgatgttg agcttgaggg tgaaacctgt 300  
 gagcctgatg atgatcctcc acagaagatg ggagaccct ctgtcgaggt tactgaagag 360  
 aatcgtgatg catcgagat ggccaaaatt aaagccatgg atgctatttc tgaaggtaag 420  
 ttggaggagg cgattgagaa cttaacagaa gctatttcac tcaatcctac ctctgccata 480  
 atgtatggaa ctagagccag tgtttacatc aaaatgaaga aaccaatgc tgcgatccgt 540  
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 ataacacgag caa 613

<210> 11260  
 <211> 437  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130d08d1  
 <400> 11260

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atttcgggaa gattaaaaat gcaataaaca ttaaataccc gatgccagag ggctggaaag 180  
 ttgaagtctc aaataactta caagcatcta aaagtattca cttgggacca cctccaagtt 240  
 tggatcatcat tttcgcaatt acaggagcta cctttggatt tgattggtgc ttggcaaaat 300  
 tagcaagggtt cttcataaca tcttgaagag cagccataat ctctggatca ccaaatagacg 360  
 ccatcagttc agggtcactc aagattttgc taaaatcaat gtttccaggc atgccaccag 420  
 cccctgggaa tccccca 437

<210> 11261  
 <211> 185  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130d09a1  
 <400> 11261

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 tcgggatatc tccggggcgc cgagctgcga ttcgatatag tgaggtcgtt caaggacgga 180  
 agagt 185

<210> 11262  
 <211> 209  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130d09d1  
 <400> 11262

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 gaaagcccag aggagatccc atataaacga gctggaaaca tacacgctcg attgttacta 180  
 aacagaggat gagactgtcg ctggtcggg 209

<210> 11263  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130d10a1

<400> 11263

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ctatggggcc cgtacttccg aggtgaaatg ctcaagacgt aggcttgctg tggaagcaca 180  
catcatcttc ggcttcgaga ccattcctga acagagcgtc gaagcaccaa aggactgcat 240  
ccatggcgaa caatatagat cagactccag gacagttaac caacacgctt actggtatgc 300  
cagagacctc taagtccatc ccaaggacac atctgcgttc agtatagatg gcaccgtact 360  
ctctaattatt gcatgctacg gaatacatgc atatgtgtgc tgaaatataa ctcgctccttg 420  
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<210> 11264

<211> 368

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220130d10d1

<400> 11264

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acgcgtggta ttacatttag atagatagga gcaagctaga ttgttgagag gagaaggaac 180  
tactgactgt agtccagggg attaggaagc tcaaagggcc tgctttggcc tctgtggcct 240  
ccgaagagat cgctccattg gtctccaatg atcccaacaa tgttgtatcc ctgccttacc 300  
aatttatctg tcgctgctgt taagcatgaa actgcattgg gagagaaagg atcttgtgga 360  
tccttgag 368

<210> 11265

<211> 448

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220130d11a1

<400> 11265

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atgggggaag aatgggtgcaa ggtatgtgtt acaggaggca gtggttacat tggttcctgg 180  
ctcatcaaga agctactggc caagggctac acagtctcat caactctcat agacttgaaa 240  
aatgagtcaa aggctggcct cttaaagagc ctttcacaat cagaacgaaa actgatgctg 300  
tttgagagctg atatttacia cccatatgat tttgaccttg caattgaagg ctgcaagatt 360  
gtgttacatg ttgctactgc catgatacat gaacctggct cccagtacaa ggatactact 420  
gaagcggcag gagctggaac aaaaagca 448

<210> 11266

<211> 409

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220130d11d1

<400> 11266

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gagcaagaag aaatgaggcg gacgcctggc gcatattgtg ttacaagcag atgtagcata 120  
aagggtgtgat ggagactgat atgacccatc cttctagaca tttgatacaa tcatccaata 180  
gcatctgggg gtgatatttg gttacaaagc cttgtcaca catctttgtt gaggccact 240  
agatatgctt gttcagccca tcttcatatt tttgtttcac atcgaatttt ggacaatgaa 300  
gatcgtaatg atcaccocat cctcttctaa tgaattatat gaacttgac actagatatt 360  
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<210> 11267

<211> 518

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220130d12a1

<400> 11267

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ttcagaaggc ttatgttttg attccaatac acgaggagta agttttcttg ttagcattga 120  
 actattgttt gtaaatagata attcttgtaa atgggtgagaa gttctttttt gtgctttcct 180  
 ttgaattagg tcattatctg aagaaactac tattcacttg acaaaagga ctggtgtgaa 240  
 gaatcattta tcaatgttta gatatttgag ctaaaatgtt acctccttat ttcattgtgaa 300  
 ctaaatagagc acacttgatt ataagtagtg ggactattat tcaagaaagg acaattattg 360  
 ttggaggtat acacaatcgg ttgtagacag aagggtcacc ttatgatatt gtatgctttt 420  
 tgggagggaa attttggtga catagaggaa taagatgtac attgtagttt ctaggtcaag 480  
 tgccaagtag agttttgagc tatggttcat ggagtttg 518

<210> 11268  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130d12d1  
  
 <400> 11268

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 tgggatgaaa acaacttcca aaaataccgg gtagatttga actctatatt gcctctagtc 120  
 gtcagttttg tactgtttcc ccactatac atttggaag gttaggaact agagttgttt 180  
 gttatttctg cacagccaac tgtagccac cttgcttg attaaagact gatggactat 240  
 ttaccaggtc ataggaaaac tctatccaaa aattaccagc tgaatagctg gcttctgtac 300  
 aaggaaaaaa aaaaactggc accaaccata cgaatatcaa cagattgttc gttcaaggaa 360  
 atgacaattg caattctgcc atgttaagtc acagaatcct cggtggtctc aacacaatca 420  
 gttgcagggc cagtaagaga atccctggca gtctcaacac aatcagttgc agggccagca 480  
 gatgatgaag gagaagattc caattacaat tatccgngac tgaattcttg ttttttcta 540  
 caagcaactt acg 553

<210> 11269  
 <211> 445  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130e01d1

<400> 11269

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 gattaactgt gtttagccac ccccttgaac tccggacatg acatgcaagc tcacaatggt 180  
 ttctatgaac gccattccta gtaagattca caattttaca ctaccttcct caatggtgta 240  
 cttcagactc cagttgtcca caacggggga atactaaaca cgcttgtagt tatacaactg 300  
 tgcaatttcc agtatacgca gttcatttgt gcatgcgttc tctgggcaat gctccagctg 360  
 aacaatgact cttaatgata tcgtgtacaa gggaggactg ataatacaacg ctactacata 420  
 tccagcggtc ggagatgaag ataca 445

<210> 11270

<211> 609

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220130e02a1

<400> 11270

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 ttacctacgc tttaaataacc aatgcgcccc ccatacaacc atatttgtaa ttgtactgtc 180  
 ctatacattg atagtgatga ctgatgaaca gtggttaaca aatctggaca tgggtaagtt 240  
 gttgttttgg attgtttgat tttttttagg gttgctgatc tgagacgagg atgaggagta 300  
 taacagaaga tgggttggtg acaggagaaa aatctgagtt ggtggtgact tgtggtggtt 360  
 tgacaaaggc cgagtagggc tcatgttcgt tgtgaatggt attacttgta gtttcgtatt 420  
 catcgattgg gtctgatggg gttgttcatt gcctttgcga gaagtcggct gttcaactac 480  
 aatcgtgaac caacaagcat ctaaacaagt tattttggtg atgtgctgag tgggatgaag 540  
 ttaagaactg tagatttggg tttgggatga tgatttgaag aaatgattga accaagactc 600  
 tgaaaatat 609

<210> 11271

<211> 523  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130e02d1

<400> 11271

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aactcaata aatctcaaag gaacactaca atgcatecta aaaccttgat catctttcgt  180
tcagggttaa tcttgggatg ttattttgcc attttttttc tcagttcagc aacaacttca  240
aaatttgtct gagtttgatg ttcttctata gccaacatct tcttcaactc catgatttgt  300
tcttcatacc aacaaattct tcatttgttg taaccttcag ctttagcttc ttcatttggg  360
tgacaacaaa tgattcaaat ccacattact tctacaaccc acattacttc ccacgccacc  420
attattttca gagtcttggg tcaatcattt cttcaaatca tcatcccaaa cccaaaatct  480
acagttctta acttcattcc actcagcaca tcacccaaat aac                               523

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<210> 11272  
 <211> 620  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130e03a1

<400> 11272

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atggcacagg gcagaagaac atgccacag gaatagtcct ccataactgc gagatcatgc  180
cggaccctac cctcttggca gaccgcttga gcgtaagac ttacttggcc aggccatgga  240
aggcattctc aagggcagtg ttcatcgaga atgttatcgg ggacttgatt cagccagatg  300
gttatattcc atggaacca attgaaccaa acacacagga ttgctacttc gctgagtttg  360
gcaacactgg accaggttcc gttgctcaag caagagccaa gtttggcaaa ggtctcatta  420
gcaagcagga ggctgcacaa ttcactgctg agccttggct ccaagctagc acttggttgc  480
ctgctgctgg cgttcctttc gatgctagct tcaccaaagc ttaaggatcc gagacaaacc  540

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agcatcttga gtgttataat ctcttttata gcttacctaa attaataaaa ctataaacag 600  
gaaatcgant acctaatttc 620

<210> 11273  
<211> 366  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130e03d1

<400> 11273

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catcagtcta tggtatatgc atactgaaaa cagagatgaa gtggttgata caaaaaggca 120  
taaatacataa atatgaaaag cttattgaat gattacaaat cagctcctca aacaatggag 180  
tggctatgtg tgactgcatt gaaattaggg aatcgatttc ctgtttatag gtttattaat 240  
ttagggaggc taaaaaagag attataacac tcaagatgct gggttgtctc ggatccttaa 300  
gctttggtga agctagcatc gaaaggaacg ccagcagcag gcaaccaagt gctagcttgg 360  
agccaa 366

<210> 11274  
<211> 617  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220130e04a1

<400> 11274

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tctacgtgaa gatccttgtg tcgcatagag ctagttaaaa tgtctgaggg aaatgcaggg 120  
aaaggaaaga gaattggcat cattgggcgt ctacgcctta ttgttggtgg ctatggttgt 180  
ggcaatcaca gttgggggtca atctcaatga gaatggttcc aacaatgata cagaggacaa 240  
caagaaaaat catgttggtt cttctataaa agccgtccaa accctttgtc atcccacaaa 300  
ttataagaaa gaatgagagg aaagccttat agctggggct ggaaatacca cagatccaaa 360  
agaacttatc aaaattttct tcaacatcac cattacaaaa attggtgata aactcaaaga 420

aactaatatt ttgcatgagg ttgaagagga acccagagcc aagatggcac ttgaaacatg 480  
 caagcaactc atggatcttt ctattgggga attaacaagg tcacttgatg gaatagggtga 540  
 gtttaacctc ataaatgttg acaaaatcct catgaatnta aaagtttgct tanttgggcg 600  
 gttacatacc aagatac 617

<210> 11275  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220130e04d1

<400> 11275

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 taataaaaaa tgcagttaac actagagtta attaataaaa tgaaaataat taaagaataa 120  
 agaagcacia tcattacttt ntaattaatt tatattgctt gattttgcaa ctcattactt 180  
 ttattgccaa ttaagtattg tctttttgtg cctatgggtg ttcggcacgc caggaaagca 240  
 aggaattccg gtaacctcaa tccaatcagt tccatgaaaa aacttagatg gtgagaacca 300  
 acgtgctgct tttgaattga ggttccaaat cccagcccat ttcacacgct tggatttgct 360  
 tgaaccgggg ccaatgttgt 380

<210> 11276  
 <211> 584  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220130e05a1

<400> 11276

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 ttttccgtca gccttctagg gctttctcga ccgctctgaa ctaccacctt gacacaccgg 120  
 acaacaaccc taaacttcca tgggaaattc accgaggcca atcaagcaaa ggttaaggag 180  
 attttgtctc actatccatc caactataag caatctgcta caattcctct tttggatctt 240  
 gccagcagc agcatgggtg ctggctccct gtttctgcaa tggatgcggt agctaagatt 300

gtagaggttc ctcccatagc ggtctatgag gttgccacat tttactccat gttcaaccga 360  
gctaagggttg ggaagtacca tctgttgatt tgtggaacaa caccttgat gataagaggt 420  
tcacgaggaa ttgaagaagc cttattgaaa cacttgggag tgaagcgcaa tgaagtaaca 480  
ccagatgggtt tggtttctgt tggagaaatg gaatgcatgg gatgctgtgt gaatgctact 540  
atgattacag tggccgatta ttcaaattgga tncganggat atac 584

<210> 11277  
<211> 526  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220130e05d1

<400> 11277

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cagaaacgca tagataacgc tggtaagtaa taaacaagcc aagaaattta tggatggcgt 120  
ttatggaaca aatttttgaa acggaagcca tccaggatga ttcatacaaa aattgggttga 180  
gcatctaaca gtctgacaat gtttcaatta aggcaagctc caagacatgc aagcctcaca 240  
ttattgaagg caaaaagtat acaacacttc agcaggaatc caggtcacgg cagggaggag 300  
gcttgggctc acttaacaaa gtagtggtcc ctcttcagg tccactctta attcggcggn 360  
gattttgggt gccgtgcggt ggcttctcac cttttctcag cttttctact atctcaacta 420  
ctttctcttg gggttatata ttcaaagtaa ntataagtat atccttccga tccatttgaa 480  
atatcgcca ctgtaatcat aggagcattc acacagcatc ccatgc 526

<210> 11278  
<211> 597  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220130e06a1

<400> 11278

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actctccctg tggtttttctt gttcttcac caacacctta gagccttcaa gaaaccccc 120

ctacctccag gtcctaaagg ccttccaata attggaaatt tacataaatt agataactcc 180  
 attctttgca tgcagctatg gcacctctca aagaaatatg gccctatatt ttcccttcaa 240  
 ttaggtttta ggaaaactat tgttatttcc tcaccgaaat tggccaaaga ggtactgaaa 300  
 aaccatgacc tagagtttag tggacgacct aaactacttc cccaacagaa attgtcctat 360  
 aatgggtcag agattgtggt ttccccgtac aacgaatatt ggagagaaat gagaaaaatt 420  
 tgtgttgccc atatcttttag ttcaagcgtg tctctagctn ttcattctata agaaagtgtg 480  
 aggtgaagca aatgatcaaa acaatatctg ggcatgcctc ttcttcgggt gttacanact 540  
 ngagtgaagt actcatatct ctctcaagca ctataatatg agaagtgctt ttggggag 597

<210> 11279  
 <211> 523  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130e06d1  
 <400> 11279

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 acatccagta aattattatt attattatta ttattattat tattattatt attattatac 180  
 gaccaaaaga aaagaaggca ccagaagtac cgcgttcacc acaaacagat acaaagaata 240  
 atgccacaaa acaaacaaa acagcacgac tgaaaataat tttaaacac gcctttccga 300  
 taatgaaagg actgtacaac ctcttatttt cacttgattt agatcccatc atcatttcca 360  
 ccaagaccaa ttaattaaga gatttttgtt tttctgaggt cccacacaaa ctntntcttc 420  
 atcctaacca tcctttctat ctactntaat ggctacttct aacatgaatt tgccccttat 480  
 ctacttcgta tttaccgggc ttgatatcna aacaaaaaga gga 523

<210> 11280  
 <211> 537  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130e07a1  
 <400> 11280

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aatattattg ccgtaagggtg cagaggcaca acctgcttc ttctgctcg gggattctct 120  
tgcgataat gttatccaca agcttttttg catctacagc tcgggcacat gctectactt 180  
atggcattga tttcccatcc ggtagacca ctgcccgtct gtctaattggc tactacatac 240  
ctgacttcat cagtctgtca cttggggcct aatccacatt gtcttattta gatcccgagc 300  
tctacagtca acgactgctt ggtgggtgcca actgtgcttc tgatggcatt gcaattctca 360  
ctgacactgg actccagttt ggcatcataa tctaataata tccacagttg gagtactggc 420  
cagaatacca gtagagcgtt agtgctatga tctgacctga gcagactgaa cgcttaataa 480  
atggagcatt attcctcagt actattgcag gcaacgacta tgtgaataac tattact 537

<210> 11281  
<211> 405  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130e07d1

<400> 11281

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tgtactgccc aagaaaagggt gaaccaaacc ggggcttacc atcattcatc ctccccaaca 120  
ttttaatata ccatccactg acccatcggc gatgagtaat cactatatgt ggcacctaat 180  
tcgaacacat ttttgaccaa ataacaggcg ttgggagact tttgcaagac acagaagatg 240  
tgcggttaata aacagatgga cacagaccct ggatttatct agatcttagg ccaatgcaaa 300  
gccatcatgg tgctgagatt cattgggtac atatgctctg aggcgcctgt cagaatctgt 360  
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<210> 11282  
<211> 548  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220130e08a1

<400> 11282



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ctcaaacggc tttctccaaa gggggaaaaa actcatgggtt attggcacag catgtgaact 180  
agatttcttg gaatcaattg gattgtgcga taccttctct gttacttacc atattcctac 240  
cttgaacaca acggatgcaa agaaggtcct agaacagtcg aatgtgttta ctgatgaaga 300  
tattgattct gctgcagagg cgttgaatga tatgcctatc aggaaactat acatgctgat 360  
cgagatggca gcgcatggcg agcatgggtg atctgcagaa gccatctttt ctggcataga 420  
gaagattagt atcgctcact tgtatgattg cctgcangat gttgctaggt tataagttgt 480  
tgtattaagc gctatctaag ttagagtgcga tataatcctt attggagtga aatctttctt 540  
aacagttc 548

<210> 11283  
<211> 480  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130e08d1  
<400> 11283

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aaagcgctta atacaacatc ttataaccta acaacatcct ggaggcaatc atagaagtga 180  
gcgatactaa tcttctcttt gccagaaaag atggcttctg cagatccacc atgctcccct 240  
tgcgctgcca tctcgatcaa catgtatagt ttctgatag gcatatcatt caacgcctct 300  
gcagcagaat caatatcttc atcagtaaac acattcaact gttctaggac cttctttgca 360  
tccgttgtgt tcaaggtagg aatatggtaa gtaacaaaag aggtttcaca aaatccaatt 420  
gattccaaga tatctagttc acttgttgtg ccaataacca tgagtttttt ccctttggag 480

<210> 11284  
<211> 549  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220130e09a1

<400> 11284

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ccgtgtcccc ttttaagccaa ttggaattca aacaaagttt cggttattgg tgttcatttt 180  
tcttctctca tctttctcta aaacattaat tgaactctcc attccttaaa ttttaccac 240  
gagctagtgc cgacacagac aaagcaatgg caaagactga gttagaggtg actggtgaga 300  
gcaagaacat agaactaaag cacctgggat ttgtgaggat tgctgctatt caaacttttg 360  
cgattgtgtc aaatctgtat gagtacgcac agcagaattc tgggcctttg agatccgctg 420  
ttggaacggt tgagaacact gtgaccaccg ttcttggtac tgtctgcaac aaattcaagg 480  
actttctga tgatgtcctg gggttatgtt acacaaagt gatgaagctt acacaagttc 540  
gatgagcat 549

<210> 11285  
<211> 392  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130e09d1

<400> 11285

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tatgccattt tttatttgcc ttccaagggg ggaaggaacc cttataagcc ttagccccc 180  
catggagata aatgggattg cctacatggg tttccatgg attaattaca taagcgtacc 240  
atgccttaac aggctgaaaa ggatgtttag tcacaacccc cccattttct tgattgtgcg 300  
atcccacaaa agagggttac tcataagcaa atttttttga aaaagttaaa ctgaatttta 360  
tcagaatcgg atgccgattt taattttggg tc 392

<210> 11286  
<211> 478  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130e10a1

<400> 11286  
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 ccacactggt cccaaagttt gccacagaga tttgaagcct caaaatatac tgggtggatcc 180  
 tcttacacac caagtgaagc tatgtgattt tggaagtgca aaagttctag tcgaagggtga 240  
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 cacagagtat accagttcga ttgatatttg gtcagctggc tgtgttcttg ctgaacttct 360  
 tttgggccag ccattattcc ctggcgaaaa tgcagtagac cagcttgtac atattataaa 420  
 ggtgcttggc acacccaccc gagaggaagt acgctgtatg aatccccaat acaatgac 478

<210> 11287  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130e10d1

<400> 11287  
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 accatctaaa aaactcttat ggaccctccg ctacttccag ccaaggctct agttttcccc 180  
 aaacagaagc attctgaggg gagacctgcg tgaccatata tgggtcaaata atactatgtc 240  
 gttggagacg tgtacgatca acaaggctat atatgcgttg cgaagtaaag atccaccaga 300  
 tggcacatgg gaatcaaaag gcacatatac tgacggatca tctgcagcca tccggcatcg 360  
 cgaatctcag tctcggctga gctagaaact acattcgcca tgtcacagaa catgggatta 420  
 agacaaagaa taatggtgcc actttttctt aacttatcag ctagtatata ctatgtcccc 480  
 taagctatat agtcacgatc ctnccagatg cataa 515

<210> 11288  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations

<223> Clone ID: jC-gmf102220130e11a1

<400> 11288

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gtgggttctt ctctgcaaag gactaccatg atcctcctcc agcaccgttg attgatgctg 180  
aggaactcac acagtgggtcc ttctacaggg ctatgattgc tgagttcatt gccacaatgc 240  
tcttccttta catcacagtg ctcaactgtga ttgggttaca gagccagagt gatgtaaagg 300  
ctgggggtga tgtgtgtggt ggagttggca ttcttggcat tgcttgggcc tttggtggca 360  
tgatcttcat tctggtgtac tgcactgctg gaatctcagg gggtcacata aaccagcag 420  
tgacatttgg gctcttattg gctcgcaagg tgtctntgat tacagcaata atgtacatgg 480  
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<210> 11289

<211> 231

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130e11d1

<400> 11289

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ctaaaagaaa atatcacaca ctgaaagaaa ggaaagtgtc tgaaaatact aaagggtatt 120  
taccaatggc tcttgtcttt gaaagaacct tcaatctaca taataggatc aaagaaaagg 180  
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<210> 11290

<211> 316

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130e12a1

<400> 11290

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gtgcaggctc caaaggataa gacccttcgc gcagagccga gacctatcat gaagtttgcg 120

cctccttcgc cgatgcggga gaataccacg taccagctgc atcacggtat tcagcggctg 180  
 acgtactcac acacggatgg ttatgcaagg agatgagtgc tgaggacatt gggaggaacc 240  
 acctgcccac cataacagcg catactgtga tatgttacac agatccagag tgatgcacag 300  
 gctggccaca atcagt 316

<210> 11291  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130e12d1

<400> 11291

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 tgataacatg tatgacatta aaacacccac tcgttacaca ccattgaaat caaagtattg 120  
 ctccctctggg tattgaatca aaaagaaacc ccaatcttca tattctgacg aaataatatg 180  
 ttttcatgca agaacaagct aattttctta caagacaaca cctcacgcca caattatattt 240  
 cttaacgaat cacgtacaga aagacctcta tgaagttata tttggctaac attccagcga 300  
 tagaaacagg atggccaag agcctcactc tcacgggaga tgaagactgg ggccttcacc 360  
 gatgccagaa ccgccgagtc cgtcaagggc accacgcaca acaaatactt gcttt 415

<210> 11292  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130f01d1

<400> 11292

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 tcgatcacct tatctggtaa cagcatatct ttagtatgga aattgagagt cggaagacaa 180  
 tcacttacia taaagtctct agaaggagac acgtatcaat ggcgctttct ataaaccac 240  
 gatgaatttt tatgcaataa gctaatttcg gacagtgatt ctaccattta atttatcctt 300  
 gcaactccac ctaccaaatt tttctaacga tgatgtgctc ctatacacag cattttttgc 360

aactccacaa tattgacctt aaacaaacaa actgttcata tgtggaaaac cagagggtta 420  
 gcgatttcaa ttggtagaca acaaatgatt caaatacaca gtacttgtac aaccacatt 480  
 aattt 485

<210> 11293  
 <211> 411  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130f02a1

<400> 11293

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 aacgagaatt actcgatctt tcaacggcac tgccgactct agcccaaac cctatattag 120  
 atacctaagg ggcacatgcg gcaatagagg ctttgcgttt actgtgaact acgaactggg 180  
 actcgctaca atagcgtcac cgcttgaaga gatcgctgtc gccatccacg gtaaccacgt 240  
 caagagaccc tctttatctc tcttgatggg aatatgagtc tgctgctcac tgtgccagca 300  
 gtgatgtaaa ctcggtggta agctgagcac gcgcgctgtt cagattgaag cgttactagt 360  
 caaccaaagg tgtggcacag atggccacta aacaatatag agagaccgag g 411

<210> 11294  
 <211> 389  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130f02d1

<400> 11294

ggcaggaaca ttgagtccat ttattcggtta gaaccggcag gttctccgga gggacgaggc 60  
 aagggtacca tttgggctgc aaactcactg ttgattcaag tagctctttt cgggtccggga 120  
 ggataaacgg tgtatagcaa cagacatgat ctactaacat ctcatgcagg cgaaaaatgt 180  
 gctctttgag ctccaagcca cctaagatta acatgtttac actacctgtt tcacttctgg 240  
 ccttcaaact cgagacttcc atcacggtgg atttctacca catccttgaa cctatacaac 300  
 tgggtgcaatt tgcattatac cactttatat gtgcatgctt tctctgggct atagctgcat 360  
 ctgtacaatg actagagatg atatctgta 389

<210> 11295  
 <211> 616  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130f03a1

<400> 11295

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 aaaggaaaga gaattgccat cattggcgctc tcagccttat tgatgggtggc tatggttgtg 180  
 gcaatcacag ttgggggtcaa tctcaatgag aatgggttcca acaatgatac agaggacaac 240  
 aagaaaaatc atgttggttc ttctataaaa gccgtccaaa ccctttgtca tcccacaaat 300  
 tataagaaag aatgcgagga aagccttata gctggggctg gaaataccac agatccaaaa 360  
 gaacttatca aaattttctt caacatcacc attacaaaaa ttggtgataa actcaaagaa 420  
 actaatatct tgcatgaggt tgaggaggaa cccagagcca agatggcact tgaaacatgc 480  
 aagcaactca tggatcttct tattggggaa ttaacaaggt cacttgatgg aataggtgag 540  
 tntaacctca taaatgttga caaaatcctc atgaaattaa aagtttggct tagtggcgcg 600  
 ggtacatacc aagata 616

<210> 11296  
 <211> 453  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130f03d1

<400> 11296

aagtacatat gatttaagct tcactataaa caaagataca cactatggaa ttgcttgaga 60  
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 agaagcacia tcattacttt ttaattaatt tatattgctt gattttgaaa ctactactt 180  
 ttattgccaa ttaagtattg cctttttgtg cctatgggtg ttccggcacgc caggaaagca 240  
 aggaattccg gtaacctcaa tccaatcagt tccatgaaaa aacttagatg gtgagaacca 300  
 acgtgctgct tttgaattga ggttccaaat cccagcccat ttcacacgct tggatttgtc 360

tgaaccgggg ccaatgttgt ggtactcggc atagaagcaa gtgtccatac cagaaggacc 420  
ctctagtcct tgccatggca aatacccatc agc 453

<210> 11297  
<211> 542  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220130f04a1

<400> 11297

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tcaccctcta tttcgccacc acgcagcagc gtcggaattt ggaccaaacc tgtcggaagg 120  
ccgaggctac tgggtgcctgt ccgagccggc acgagcgacg acgagtgggg gccggagaag 180  
gaggaggcgt acggcggcgg cgtagcgggtg gaggagaaac cgacgaagtc ggagacggag 240  
acggagaagc tgaagaaggc cttggtggat tcgttttatg gcaccgatcg tggactgaaa 300  
gcaacgagcg aaacgagagc ggagatcggt gaactcatca cacagctcga ggccaagaac 360  
cctaaccctg ttcccaccga cgccttgact cttctaacgg aatggatct cgcgtatata 420  
tccttgacgg tttatntcca ttgttgtcaa gtggaacact accattgggtc aaggtagagg 480  
aaatatccca gattattgac tcgctgaant ttaccgtcca aaactctggt cagttcgctg 540  
gt 542

<210> 11298  
<211> 375  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220130f04d1

<400> 11298

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ccaaccaaca attcgcaaca cagcattaac aaactgttct acacatgtat cttcaaaatc 120  
attgtataaa attcagaccc ttacttatt tataaacata agcctgatat tgaccaccaa 180  
agtaaactag tttgttttgt ttatcttggc aaaagagagc ttccttcttt gataagaaca 240



aacacactgc caccatcgcc ccttgagata cgcaattctt cgtcgaggta tgtggtgagt 300  
 aaccaggact gagcattgct gttggaaatt gggatcttca agggaggcct acttgaaatt 360  
 gttttcacta ccgat 375

<210> 11299  
 <211> 620  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130f05a1  
 <400> 11299

aaccctagct ggataggtca aacatcatca tgtcggacga agagcaccat ttcgagtcca 60  
 aggcagacgc cggcgcctcc aaaacctacc ctcagcaagc cggcaccatt cgcaagaacg 120  
 tgctacatca gtcacaaag ggacccccctt gaaagggtgt ggaagtttcg acttccagaa 180  
 ctggaaagca cggtcacgcc aagtgccact ttgttgaat tgatattttc actgtcaaga 240  
 aacttgagga tattgtgccc tcttctcaca actgtgatgt tctcatgtg aatcgtactg 300  
 attaccagct cattgatatt gctgaggatg gatttttgag tctgcttact gaaaatggga 360  
 acaccaagga tgacctcaag cttccactg atgagagtct gctcactcag ataaaggatg 420  
 gatatgctga gggcaaggat cttcgagtgt ctgacatgtc tgctatgggt gaggaacaga 480  
 tttgcgctct gaaggatatt gggccaaaga actagctttt ggtgctggca gcctgtcgtt 540  
 tctatttaag caaagatcct tatgtaagac tttatattgt attgttcaag acctggctta 600  
 tggcttatag aatctagtca 620

<210> 11300  
 <211> 509  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220130f05d1  
 <400> 11300

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 ctctccttt ataacaaagt cataggacag catagaaaac cagaaaaaat gtgatatagt 120  
 ttctgtgacc acatccataa acaccattgt taagactagt ctgactagaa tctataagcc 180

ataagccagg tcttgaacaa accaatataa aggcttacia aaggatcttt gcttaaatag 240  
 aaacaacagg ctgccagcac caaaagctag ttctttggcc caatatectt cagggcgcaa 300  
 atctgttctt caccatagc agacatgaca gacacaacaa gatccttgcc ctcagcaaata 360  
 ccatecttta tctgagttag cagactctca tcagtgggaa gcttgaggtc atccttggtg 420  
 ttcccatttt cagtaagcag actcaaaatc catectcagc aatatcaatg agctggtnat 480  
 cagtacgatt cacatgagga acatcacag 509

<210> 11301  
 <211> 601  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130f06a1  
 <400> 11301

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 tccagaatgc caaatccaaa gcacattatt ctgcagagct ttgtcttctt ctgcctgctt 180  
 cttcaggcat cgtcaaaaatc cacgatcgag ccatgctcga actccgactc atgcaacgcg 240  
 cttctgggct acaccctcta cacggacctc aaagtctccg aggtggcgtc gctgttccaa 300  
 atcgacccca tctcgctcct caccgggaac gccatcgaca tctectacce cgacgtcgag 360  
 caccacatcc tcccctccaa gctcttcttg aaaattecca tctectgctc ttgcgtcgac 420  
 ggcattegca aatccgtcgc tactcactac aagaccgcgc cctccgacac cctctcctcc 480  
 atcgccgacg ccgtctacgc cggcctcgtc tctccgacc agctccgcga ggccaattcc 540  
 atctccgacc cttcggatct cgatgtcgga cagaacctcg tcgttctctt accttgacgt 600  
 g 601

<210> 11302  
 <211> 409  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130f06d1  
 <400> 11302

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 tgcacctgtg acaaacacaa gtagcaggcc aactataccc cccacaaaat tgagaagatt 180  
 acaatgccac aggtatcatc aacttgacaa gcaataacac aagtgcattc gtcaaagtgg 240  
 gcaatggttt caccaaggag catgcaacag aagccccgga agaaatgccg ctaatagggc 300  
 catttgcagg agagaatcct cctggaagcc ccgctgaagg caccagcgag gatttgggtg 360  
 atgctggacc agtccatcg aacagtgggtg ctggggcttg tgcaaacac 409

<210> 11303  
 <211> 440  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130f07a1  
 <400> 11303

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 aagtatgtgc gcattgggtca tcaagtttca aacgtgattt ctcaaactct gctgggtgctg 120  
 ctcaaacggc ttggtacaaa ggggaagttt actcgtggat catgtcacag cacgtgaact 180  
 aaattgctcg aaatcaatag tatgggtgca taccttgtct gatacttacc atagtcctac 240  
 cttgatcaca acggttgcac ataccgaact agaacaggcg attgtgaata ctgatgaaga 300  
 tctcgaatct gcttcacatg cgtagcatga tgtgcctatc acgaaactat ccatgttgac 360  
 cgagacggca tctcatggcg agcatagtat atctgcagac tccatctacc atggcctata 420  
 gaacattagt atagttcact 440

<210> 11304  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130f07d1  
 <400> 11304

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atagcgctta ttacatgatc ttatcgccga acatcgctct ggaggcaagc ttagttgtga 180  
 gcgatactta tcttctcttt gacataaaag atgggttttg gatagccacc atgctcgct 240  
 tgcgctgaca tctggagcaa catgtctagt gccctgatag gcatatcagt gatcgccac 300  
 tgtagccgga tcaatatctt catgaggtga cacattccac tgtgctcgga cttctttgc 360  
 atacggtgtg ttca 374

<210> 11305  
 <211> 404  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130f08a1

<400> 11305

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 ctcaaacggc ttgctacaaa gggggagata actcgtggat attggcacag cacgtgaact 180  
 aaatggcttg gaatcaatag gatggtgcga taccttgtct gttacttacc atattcctac 240  
 cttgatcaca acggttgcaa agaccgtcct agaacagtcg actgtgtata ctgattaaga 300  
 tatcgaatct gctgcacatg cgtatcatga tgtgcctatc aggaaactat acatgttgat 360  
 gcagatggca gtcatggcg agcatgctat atctgcagac tcca 404

<210> 11306  
 <211> 434  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130f08d1

<400> 11306

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 tagcgcttat tacatgatct tatagcctaa caacgtcctg gaggcattca tagaagtgag 180  
 cgatactaact cttctctttg ccagaaaaga tggtttttgc agatccacca tgctcgctt 240  
 gcgctgacat ctggatcaac atgtatagct tctgatagg catatcagtg aacgcctctg 300

tagcagaatc aatattttca taaggtaaca cattcaactg tgctaggacc ttctttgcat 360  
 acgggtgtgtt caagggtgggt atatggtaag tcacagagaa tgtatcacag agtccaattg 420  
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<210> 11307  
 <211> 554  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130f09a1  
 <400> 11307

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 tctcttcttg gatttcttgg aaggctttgc gtttgccccg acatcatatt ttttgccctg 180  
 tatcatatgg cttaagctta aaaagcccaa gaaatttggc ttgtcttga cgattaactg 240  
 gatctgcatt attcttgggg taatgttgat gatagtatct ccaattggtg ctctaaggaa 300  
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 ttccccaacc gattttaaag ttgatgagtg aaactaaata acaagatagc acgcagacat 420  
 gcgttataca ttgaatatag ataagcttaa taggatttgt ggaagtgata cacacacaac 480  
 tagcctggta cagaattata cttcttttga agtaacaact atcttatcac cgtgtagctt 540  
 atagcggaaa cact 554

<210> 11308  
 <211> 338  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130f09d1  
 <400> 11308

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 cacaagggga cacggggggg atttccctcc acaataacca tgaagcttct ttttcttaca 180  
 agtttaacac ctcgatggag ggttttatatg gatttatgtc ccctcaagaa atttaaaacc 240

gggggggggaa aaaaagtatg caccatgaat tccttgaaaa aaccgcatt ttttgccca 300  
 gacaaaaaat gtccttaaag cccattggg ggatactt 338

<210> 11309  
 <211> 473  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130f10a1

<400> 11309

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 tctcttcttg gatttcttgg aggctttgcg tttgccccga catcatattt tttgccctgt 180  
 atcatatggc ttaagcttaa aaagcccaag aaatttggct tgtcttggac gattaactgg 240  
 atctgcatta ttcttggggg aatgttgatg atagtatctc caattgggtgc tctaaggaat 300  
 atcatattat cggccaaaaa ctacgagttc ttctcataaa ctattgatgc aatcattgat 360  
 tccccaacgg attttaaagt tgatgagtga aactaaataa cangaaagca cgcagacatg 420  
 cgttatacat tgaatataga taagcttaat agggattgtg gaagtgatac aca 473

<210> 11310  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130f10d1

<400> 11310

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 aaaccctgcc caaaaaactc ctgcgtcacg cccacgaacg catatatgat ggagtgcgcc 180  
 aaaagggaaa taagacattg acaagggggac ttgggggtgca ttcacagcac aggggaatttt 240  
 ctccaattgt tggaaagggg accccttgga gacctggttg tttgtggtac cgcggatcca 300  
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gtgcttggg

369

<210> 11311  
<211> 572  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220130f11a1

<400> 11311

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ttttcaagtc ttccaaatga tgatctgggt gggatggaat cttgtgttaa agaattagca 180  
aagcttttac gtttggggtc cgtaaagac attcaagttg tggggatgag tgggataggt 240  
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tttggttggt tcattgatga tgtaagcaaa attgatcaga attctagtgt atcagggtta 360  
caaaaacaat taccttgta atctcagaat gaanaaagtt tagagattta ccatctattt 420  
aagggaacat gtttgttatt gactaggcta tgctagcaag ggaattgata gttcttgata 480  
atgttgatca agttggactc ctaaagatgt ttccaaggag tagagatact ttgtacgtga 540  
atgctangtg aaggggcaga atcatcatat tt 572

<210> 11312  
<211> 474  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220130f11d1

<400> 11312

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cgaaaacatt atttaaaatt tgcacccctg attctttagt tgagtcacat acaactaaaa 180  
atgaaagtct taccatttct cctttgcttg tagcttgcac aatttctgat gatataattg 240  
cagcaacttg attgagtttt ccaggagggt tttggcagca tcttttcttc cttctgctga 300  
gattcttctt ttgcttcttt ttccttgatt ttttcttca tttgttcaa ttgccaacaaa 360

cttgtgcttc taagctgaca aatttccgct atgcatcata gctaagtttg atagttcaag 420

atcctgttta tataaccaat gatacccgta tttcttcacc tcaacatgaa aacc 474

<210> 11313  
<211> 557  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220130f12a1

<400> 11313

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cagctagaat tcgagactcg ttgaagcaat ttgaggacga ggagcctgtt ttgcgtctga 180

ggagactatt gaaggaagca attgctgaag agagattcca ggatgctgct agttaccgtg 240

atgagctaaa caatattgcc ccacactctc ttttaaaatg ttgcagcgat gctacaacat 300

tggaatcag ggttcaagtt aggagtgtat atatagaggg cagaagtcag ccttcaaagg 360

ggctatactt ctttgcataat agaataagaa ttaccaataa ctacagaccac cctgttcaac 420

ttcttagaag gcattggatt ataactgatg ctaatgggag aacggaaaat gtctggngaa 480

ttggagttgt tggatgaacag ccattaatac ttntctggana tagttntgaa tactcttcag 540

catggcccac tgacaca 557

<210> 11314  
<211> 359  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130f12d1

<400> 11314

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cttcggaatg gtgatgagaa tgataataat ttacatgtcg cagaagtgat gcagcagttc 180

aatttcaaat aacacatcct tcattctgtc caagcagaga gagagaaaac ggggcaatgg 240



ccacattgaa tgatcgtgag cctactcttt caaaatggat catctgataa tcaccttcca 300  
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<210> 11315  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130g01a1

<400> 11315

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 cctcatcatc agcgtcactg tgctcttctc attcatccta ggttttcttc ttctgtggaa 180  
 atccgttaaa atctaccgcy cgccgctccc gttc gatcga gtcgactcct tctcctccca 240  
 aatcgaatcc aaacccttgt ccttcccatg ccgctttcta gccatattca tcggcttcga 300  
 tttcatgggt tcaaacggaa atgtaggagc cgcgattgag agaaaaatgt cggacctaag 360  
 tcacggcggc gattgcggcg gatgtgggtg taactactct gtttccgtgg cgggtggcg 420  
 gggaggcatt gatgcggtct attttggcgg gaagttgcgg ggtaatgacg aggatgctga 480  
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<210> 11316  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130g01d1

<400> 11316

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 tttcacagat tagtaatgag atttttcaat aactcaagtg tgaattttta gtaaagagca 180  
 ttttcctca atctactcat aactatggta caaccaaag ccgatcatgcc aacattgcct 240  
 tgctccaatt atatcacatg tgacgtaagc atcgtgtcaa cattgtcatt ttcaacagaa 300  
 ttcacaacgc agaaggtctt gggaagagaa aggaaggagg ctttacttgg gttgaagttg 360

aagtgttca ccacacgcta tgtcccaaat ccagaggaaac tagctgcac ttgttatcac 420  
 tgctcaacag atttatgaaa cttttacttt gtccttcgat gctaaggact tctttttttc 480  
 ttgcttggac cttttccatt ctgtaaag 509

<210> 11317  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g02a1

<400> 11317

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 agaaggaaaa tagtaaaact ttcatagtcc aagtccacca ccaaaccaag cttccatat 180  
 tccctaccca caaactctgg tacgactcct ccctctcttc catttccacc accgcttctg 240  
 ttatacacac ctacgacacc gtttttcatg gcttctccgc aaagctctca ctttcagagg 300  
 cacagaagct gcaatcactc ggccacgtca tcaactctcat tcccgaacag ctctggtccc 360  
 ttcacaccac gcgctcccct gagtttctcg gcttaactac cgccgacagg accggcttgc 420  
 tccacgagac cgatttcggc tcggatctcg tcatcggagt tatcgacacc ggaatctggc 480  
 cggagcgcca gagcttcaac gaccgagacc tctgccccgt tcccgccaaa tggaaggaaa 540  
 gtgcgtcgcc ggacaaaa 558

<210> 11318  
 <211> 525  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g02d1

<400> 11318

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 acaaacattc ttaattatac aacatgaaag atatacttcc accatacctt tgtctttgat 180  
 gataactttc ccccttttg acagcaccac catcacgctc tctctaaca accatccttc 240

ctccagttct tacaaatgga acaccttcac aaacacattc tctattaagc acatagagct 300  
 ttttttttatt tttaaaatac gatattatcc aagatggata aatacccaaa atttctacac 360  
 ccaaaacctc aatccactaa tccagaggct gctgcatcgt cacaacaagg ggacttgtga 420  
 cagtatgctt cccatcagac caaactatga agccactctt cacactagaa ccaccggag 480  
 aaagcttaac agccctaatt tgaaccctga caagaaagtt gagct 525

<210> 11319  
 <211> 622  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130g03a1

<400> 11319

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 caatattgcc agacaataat ggggtctctct atggtgatct caagcgaatt tgtgaaactg 120  
 accttggtt aatttcacaa tggttggtg acaaagcatg tcttcaaaat cactaaacag 180  
 tacctggcta atgtgtctct gaagatcaat gtgaagatgg gaggtagaaa cactgtactt 240  
 cttgatgctg taagctgcag aataccattg gttagtgaac taccaaccat aatttttgga 300  
 gcagatgtaa cccaccaga aaatggagaa gactcgagcc cttcaatagc agctgtagta 360  
 gcatcccagg actggccga agtgacaaaa tatgccggtt tggtatgcgc ccaagctcat 420  
 aggcaggaac ttatacaaga tttgtacaaa acttggaag accctgttcg tggcacagtt 480  
 agtggtgga tgatccgaga tttactggtt tccttttagaa aggcaacagg aaaaaagcca 540  
 ctacgaatta tattttacag ggaccgtgta agtgaagggc aattttacca agttttactt 600  
 tatgagttgg atgcgattcg ga 622

<210> 11320  
 <211> 468  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130g03d1

<400> 11320

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ctaaatttga catctatata gaatctaata gtacttgtag gaattcattc taagctatgc 120  
 ctcaagaact gtaatcatgg atttatcaca ggaaacctac acgactaatg tacaaagtaa 180  
 tgtgagctga acattgcatt ccatgattgt ttctacttac ctaccatgtt gatgcttgcc 240  
 ctatatatct atcattccac caaggccaag tctactagcag tctaacagta aaacatgacc 300  
 ctcttcacat tttctttcaa gtctggcaat ggcttgacac tataatcacc agctgctcgt 360  
 attgcttttg caccataacc attgccatca cctgcagagc caatggcttg catatctggc 420  
 tccatataga aacgtgctcg aaacgtgct aaatgtgcat aatatgct 468

<210> 11321  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130g04a1  
 <400> 11321

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 taatattgtc agacaataat ggggctctgt atggcgatct caagcgaatc tgtgaaactg 120  
 accttggatt aatttcacaa tggctgcttg acgaagcgtg cctgcaaaaat cactaaacag 180  
 gtcctggcta atgtgtctct gaagatcaat gtgaagatgg gaggtagaaa cactgtactt 240  
 cttgatgctg atagctgctt aataccatcg gttagtgaac taccaatcat aatttgtgga 300  
 gctgatgtta cccacccaga aaatggagag gactcgagcc cttcaatagc agctgaagta 360  
 gcatcccatg actggcccga aatgacaaga tatgccggtt tggtagctc cctaactcat 420  
 atgcaggaac ttatacaaga tttgtacaat acttgacaag accctgatcg tggcacagtt 480  
 aatggaggca tgatccgaga tttactggct tact 514

<210> 11322  
 <211> 327  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130g04d1  
 <400> 11322

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ctaaatttga catctatata gaatctaatt gttctcgtcg gaatccattc tgagctatgc 120  
 ctcaagagct gtagtcatgg attgatcaca ggagacccac acgactcatg tacagagtca 180  
 tgcgagccga acattgcttt ccatgactgc actcacttac ctaccatgtt gacgctgggc 240  
 ctatatatct attattccac caaggacggg tccctggccc tctaactatg aagcatgacc 300  
 ctctttacat tttttttcaa gtcaggc 327

<210> 11323  
 <211> 568  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g05a1

<400> 11323

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 tactgaagat gcagaaaatg ggtatggata ggaatgatgg ctctgaccc tctgagggaa 180  
 tgccctgtatt tcagaatgtc ttgaaagata tgattcctgg ggtaaagggtg aaggtattca 240  
 aggtgataac tccagagaaa gtagacaagg atctatctaa tgtgattgag aagataattg 300  
 aggacgaaga cggagacgaa gacgaagatg actagatgga aaatgatgca taaagtctag 360  
 aactggatga gattaagttt gagactgacc attatggaga tgatgagatt gaagtaaatg 420  
 ctgggtctggg aacttttgaa cgtgaagacc ataatgagtt tgctgtcaaa attgccattg 480  
 ttggatctgt tcagacactg tctgggtgac tatectctag agatatgctt cgagtccatg 540  
 ctatgctgga gatgaatggg cgtgggttc 568

<210> 11324  
 <211> 446  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g05d1

<400> 11324

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 atttttctta taaattagga acaatgtaca aagttgatga agataccctg aacactacac 120

ctccataaaa tgtcgaatga agagactagt acattgggct ttagtgctga tattatgaat 180  
 ccctcttcaa tctatagtta gtcaagctac agctaccaag cttaagatac ctcggtcatt 240  
 tgagttctag acaagcagcc aaatgctcaa cctatgctac tcggcagaaa gctagtagtg 300  
 aagatctttt aaagctcaaa tggaaaccct gtatagatgg gtgatatctt ccattgaagc 360  
 acaatttagc attcaacaaa acctagaacg ctgagaatct gaagaaagaa tttaacaagtc 420  
 tctgatatta tgaacaaaac cctact 446

<210> 11325  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g06a1

<400> 11325

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 tgctcaaaga ctgatcttca tcctaagat actgaatata atcgatcatct gcaagtattg 120  
 actactcatg atgcagataa ttccagttat acacatgata gatctgctcc tgctgatgga 180  
 ctgtctgtct tttgcacgct ctttaaagat ctgaatcata catgctcggc gctgggctta 240  
 aagttgacaa ctcgatacat agaaggcaag gatttatatc aatgagaccg agaatatggg 300  
 cgatgcctaa catggagacc tggactagt agtactagat aggaaatgat acagacagtc 360  
 tcgtgttcta tgacatgtac atgaagactg accgtcatgt atatgataac 410

<210> 11326  
 <211> 258  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g06d1

<400> 11326

aggacaaatt tacattatatt caacaagaac cataccatgg tgggttttat catacatggc 60  
 aactttcatt aaaaaatagc aacaatgcac tgagatgact aagataccca aaccactgca 120  
 cctcaataaa atgtctaaag caaagaccag gacactgcgc tggaatgcct agatcacgaa 180  
 tcccgaagaa atctatatag agaaaaacc cacaatccac gcattctcaga cctcacactt 240

258

<400> 11327

<400>	11328
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<223> Clone ID: jC-gmf102220130q08a1

<400> 11329

cttgaccgag ttctgaaacg tcggaaagca gaggattccg ctctgcagc accaatgatt 60  
 gagggagcat ctgtccaagt gagaaattgg tcatatggga atttatctaa aagagacgca 120  
 ctctggttttt ctctgttcagt atgaaatatg gcaatgagag ccaagttgac ttaattgttg 180  
 ccgagggttg tggtgctgtt ggggctgctc cacctggagt acagattgaa cttttcaatg 240  
 ctcttattga tggctgtaca gaagcagtag aacttggaaa tcttgatgca aaggggcctt 300  
 tgctggattt ttttgggtga ccagtgaagg caaatgatct acttaccctg gtccaacaac 360  
 ttcaactttt ggcaaagcgc attggctgat atgaagatcc tattgcacaa ttctgtgtgc 420  
 tgtcatatct caaacatca aactgggtcca aagggtgtgg atggaatcaa attgatgatg 480  
 ctagattgct tcttggtatc attacatggg 510

<210> 11330

<211> 504

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130g08d1

<400> 11330

cgaaaattaa agctataatt accacaaaaa tccaatacat tgtttggcta catcagctaa 60  
 cataatactt tatgggggtga gcagtaaaat cgaataaaat tgcagaattg acaatgtaca 120  
 gtttcttaag tatgtctata gcaagtgggt aaaactcttc gcttttcaag attttcgcca 180  
 tgtcactttg cttggtcata tcttcgaagg agtagaaatc aaaaaggaaa aagaaacaat 240  
 tggcaagact agtttttcat cttgcattag atcttttcgg cttcagccat cttcaaggat 300  
 gtgaatccca gtgtagggat atttctcata tccgccaaaa cacaccaaaa agggatccgc 360  
 aaggtcttat tcgcatgggt ggaagaaaaa aattccacag aatgtacaat tgctgaagct 420  
 gtataaatgc agagtgaag ccaacagcca acactcttgt aatcagccac tctaattccc 480  
 accatgctgg ttactttata cctg 504

<210> 11331

<211> 564

<212> DNA

<213> Glycine max



<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130g09a1

<400> 11331

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 gcttggtgtt gattcatcaa atcatcaaag atgactgtag gggcaggaat atctgttgca 120  
 gatgggaact tgatggtggt gggggaaaaa agtgctgagc catgtccatg acaaggttct 180  
 tgttaccctt gcatgtggtg gtgcttttgc caatggggca ttcattgggg ttcaatccca 240  
 tcacaagggg agccgtacag tcttcccaat tggcaagctt cagggggttg gatttatgtg 300  
 tgttttccgg ttcaagatgt ggtggatgac gcatagaatg ggcacttgta gacaagatat 360  
 cccattgag acgcagttct tgctcgttga agcacacaat ggctctgata ttgaaggaag 420  
 aagagaccaa tgtgctgcta cctatgcagt tttcttacc cttctcgaag gagatttcag 480  
 agcagttctt cacgggaatg atcaagacga gattganatc tgtgtggaaa gtggattgcc 540  
 tgctgtggag gaatttgatg ggac 564

<210> 11332  
 <211> 495  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g09d1

<400> 11332

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 atccgtatat ttcttttcta gcttaacgaa actacaatga acttcttaga aatgaggcct 120  
 aatgaaacca agagcaacca attcatactg tatgggaacg atgcaaaggc tgcatttaca 180  
 ttctgcttaa gtatatcaca aaaaataggg agagaacttc gtgatattca ttcattgctt 240  
 ctgggtattc cttacaggga acctctaaca ttctctgcca ttgggtctaca tacgctcatc 300  
 atattggtgc gaactatgga tacatcaagt ctataactct aaacccttc atcttgagac 360  
 aaagactctg attcaaaaat caatagaaat gctccattgg tataactctt tctcaggtag 420  
 tctcaaatca atagtcacca atccagattc ttctcctaac ttgaattcta cctcttctga 480  
 gtcaactgtt atcaa 495

<210> 11333  
 <211> 452  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220130g10a1

<400> 11333

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 gcttgtgttt gattcatcaa atcatcaaag atgactgtag gggcaggaat atctgttgca 120  
 gatgggaact tgatggtgtt ggggaacaaa gtgctgagcc atgtccatga caaggttcctt 180  
 gttacccttg catgtggtgg tgctttgctc aatggggcat tcattggggt tcaatcccat 240  
 cacaagggtg gccgcacagt cttcccaatt ggcaagcttc aggggttgcg atttatgtgt 300  
 gttttccggt tcaagatgtg gtggatgacg cagagaatgg gcacttgtgg acaagatata 360  
 cncattgaga cgcagttcct gcttcgtgaa gcacacaatg gctctgatat tgaaggagga 420  
 ggagaccaag gtgctgctac ctatgcagtt tt 452

<210> 11334  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130g10d1

<400> 11334

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 atccgcatat ttcttttcta gcttaacgaa actacaatga acttcttaga aatgaggcat 120  
 attgaaacca agagcaacca attcatactg tatgggaacg atgcaaaggc tgcatttaca 180  
 ttctgggttaa gtatatcaca aaaaataggt cgagaacttc gtgatattca ttcattgctt 240  
 ctggatattc cttacaggga acctgtaaca tttcctgcc a ttgggtctaca tacgctcatc 300  
 atattgttgc gaactatgga tacatcaagt ctattactgt aaacccttg atcttgagac 360  
 aaagtctctg attcaaaaat caatagaaat gctccattgg tataactctt tctgagggtc 420  
 tctcaaatca agaggcacc 439

<210> 11335

<211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g11a1

<400> 11335

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 tggccacgat cctgtccttg ttcacggtct tcgcggtttc atcggcccta gacatgtcga 120  
 taatctcgta cgacaacgcc cagcccgcca cgtcgcgcag cgacgaggag ctgatgtcca 180  
 tgtacgagca gtggctagta aagcacggca aggtgtacaa cgcgctcgga gagaaggaga 240  
 agaggttcca gatcttcaag gacaacctgc gattcatcga cgaccacaac tccaagagg 300  
 accgaaccta caagctcgga ctgaaccggt tcgcggtatct caccaacgag gagtacaggg 360  
 ccaagtactt gggaaccaag atcgatccca accggaggct cggcaagacc ccgagcaacc 420  
 gatacgcgcc acgtgtcggc gacaaactac ctgaatcggt tgattggagg aaggaagggtg 480  
 ctgttctctc agtcaaagac caaggaggct gtgggagctt gtgggcattc tcagcaatcg 540

<210> 11336  
 <211> 362  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130g11d1

<400> 11336

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 caatcaaata tgttcgcat ttggaattgg aatttgaata caaataccgt gcatcaataa 120  
 ttttaacccta tgtacacagc caatatctga ctgaaatttg atacagaata gtttcaattt 180  
 gtatcataat aaaagggcac agagaaattt atgtgaagggt aaaggggaag tgtatcagct 240  
 ggggtttaaa ttcttcgtct ttcatttact tcataatggg ctcttctctg cacgttcaca 300  
 tttcttttat ctgcttaagc actgctgacc ttgttcttac gcccaaaggg ccaatgggggt 360  
 tt 362

<210> 11337  
 <211> 457  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130g12a1

<400> 11337

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 aggacggagg gagtggcacc gattggtttc acaagacata ccctacgagg aacaaggact 180  
 ttgagatata taagatcgag acggtggcgg aggggtgtcc acagatcgag atgtcagatt 240  
 ggttgaggaa gaatgtgagg gaggaagaat atgtggtgat gaaatcagag gctgaggtgg 300  
 tggaggagat gatgaggagt aaggccataa tgttgggtga tgagcttttc ttggagtga 360  
 agccacaaca agggaatgtg aagaagaaga atagaagggc ctattgggag tgcttggtt 420  
 tgtatgggaa gttaagagat gaaggtgtgg ctgtgca 457

<210> 11338

<211> 396

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130g12d1

<400> 11338

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 ggaaaagtgg taaaaaaccc cccccccaa aaaaaataa aactttaagg ggcccgggga 120  
 gaaagataaa aaccggagt tttaaacc cggggggccc cccccccc ttgataagga 180  
 ccaactactt gttcgccct tttacccc accaccggg gtccctttta attggatccc 240  
 cccttggggg ggaaaaaaaa gttttttaa accccctttt ggggtgtccc ccctgggag 300  
 tgaagaaaag accccaccag ggtttga aaaaggggccc ccccaaatt cgcgtgcga 360  
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<210> 11339

<211> 522

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220130h01a1

<400> 11339

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 cgaagaaaac acccaaactc cgaaaaccac gcgaaacaca aaaccggcg tcaaacgcct 120  
 catcatcagc gtcactgtgc ttttctcatt catcctaggt tttcctcttc tgtggaaatc 180  
 cgtaaataatc taccgcgcgc cgctcccgtt cgatcgagtc gactccttct cctcccaaatt 240  
 cgaatccaaa ccttgtcct tcccatgccg ctttctagcc atattcatcg gtttcgattt 300  
 catggtttca aacggaaatg taggagccgc gattgagaga aaaatgtcgg acctaagtca 360  
 cggcggcgat tgcggcggat gtggtggtta ctactctgtt tccgtggcgg tgggcgtagg 420  
 aggcattgat gcggtctatt ttggcngaa gttgcggtgt aatgacgagg atgctgatga 480  
 attggtgaag agtgtggtga gtgagtatgg aggagggaaat at 522

<210> 11340

<211> 498

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130h01d1

<400> 11340

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 acatgatttt agatcacagt agcacgaaga tactagattg atacatttca cagattagta 120  
 atgagatttt tcaataactc aagtatgaat ttttagtaaa gagcattttc cctcaatcta 180  
 ctcataacta tgggtacaacc aaaagccgcc atgccaacat tgccttgctc caattatata 240  
 acatgtcacg taagcatcgt gtcaacattg tcattttcaa cagaattcac aacgcagcag 300  
 gtcttgggaa gagaaaggaa ggaggcttta cttgggttga agttgaagtg cttcaccaca 360  
 cgctaggccc caaatcccag gaaactagct tcactctgtt atcactgctc aacagattta 420  
 tgaaactttt actttgtcct tcgatgccaa gtacttcttt ttttcttgct tgtacctttt 480  
 ccattctccg taagcagc 498

<210> 11341

<211> 513

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130h02a1

<400> 11341

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cttcttgctc tgaaaacact tacaattaga aattgtgagc tgcttggtc ttctctccca  120
acggctcccg ccattcaaag tttggagata tgtaaaagca ataaagtagc actgcatgcg  180
ttacctctct tagtagagac tatagaagta gaaggaagcc caatggtgga gtctatgata  240
gaggccatca ctaacatcca accaacttgt ctccggtctt taacattaag ggattgctcg  300
tcagccgtgt catttccggg tggtcgttta cctgaatcac tgaagagtct gtatatcgag  360
gatcttaaaa aactggaatt cccgacgcaa cacaacatg agttactgga aacactgtca  420
atagaaagca gttgtgattc actcacatct cttcattggt tacctttcca atctcagagt  480
tgtcacaatc ggaagtgtga aaatatggaa tat                               513
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<210> 11342

<211> 569

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220130h02d1

<400> 11342

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ctaccgaatt gcaattgtat atttattatg cttttatcaa ttcttacata tgtacatata   60
tatcatatct ttagaataat cataccacta ttaatttata gtacagggga taagagataa  120
gctgaaatca tccaatcttc tgaagttcac ttgtacacct ttctatcctt cacattgtac  180
ccaacgaaaa acctcacaaa taaaaattta gctattgaga aagtgtcaat ttcacgtcaa  240
ttaaatcaaa agttacattc agcactagtt caaatttgaa cttagattca tgggtaggta  300
cagttgctcc gggccaatca accatatctg tatcggtact tcttcgaaac atatatacaa  360
ggccaatttc cacgttgctt ttgataatct gttgattctc tggtagatcat ccttggtggc  420
taaaccatc tatcgtaaac cttaatgcca gggatgtggc aaattttagg ccaaantga  480
tggtgcttca tgcggcatag tttttccagc aaaggacaat tctttatggt taattttatt  540
agagagtcaa gaagcctttc tccaccata                               569
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0953113.03200

<210> 11343  
<211> 429  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130h03a1

<400> 11343

atcatgccga ccatgctggca gggagcagaa ctaaagcata ggaatgggag ctaacgatcg 60  
cactattggc agacaataat gggtagctct atggcgaact gaaacgaact tgcgatactg 120  
acctaggctc aacaagacca tgcctgcgtg acgacgcatg cttcacaat cgctatacag 180  
tacctgacta atgctgtctat gaagaccaat gcgcagacga gagcgtcgac aactgtact 240  
cgtagatgct gacacgctgc agaataccac tgggctactg acatgaccaa ccatacagat 300  
gtggagcgat acgttaccca ccataagga tggagaagac tggagccctc aagtagcagc 360  
tggacaagca caatacgact gtctcgaagt gacacaatat gccagcttgg tatgcgcca 420  
agctcataa 429

<210> 11344  
<211> 339  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130h03d1

<400> 11344

gaaagggctt tatggtaaaa actgctacaa agattgacac agaattgtgtt ttacaatgct 60  
tattttgcca tctatataga atctaattgt gcttgaagga attcatccta agctatgctc 120  
taagacctgt attcatggat tcatcacagg aaacctctc gactaatgta catagtgatg 180  
tgagctgaac attgcatgcc atgaatgttt gcactgacct accatgtcga agcactgccc 240  
tatatatcta ttatttcacc aaggccaagt cactaacctg ctcacgagca aacatgacct 300  
tattcacatt ttatttgaag aatggctgtg gcttgacac 339

<210> 11345  
<211> 614  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220130h04a1

<400> 11345

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ctcgagccgc tcgagccgat tcggctcgag cagctggctc atcaagtcca agaaccaacc 60
taccttttgc aatctcaatt caatggcggt ctctctcatt gcgaagcgct tgctctcctc 120
ttccctcctc tacaggtaacc tccttatggc cgggcgcttc cgcttccac cgctctttca 180
acaccaacgc catgcgccag aatgacaacc gcgccgacga ccacagcacc gacatggatc 240
gtcactccga acgctctttc cctagcactg agcgccgga cgatatcttc tcagatgtgt 300
tggatccatt tgttccgact cggagtttga gccatgttct gaacatgatg gaccagggtca 360
tggacaatgc gatcctctcc gcgtcacgcg gtatcggagc tggcgctgca gtgcgtagcg 420
gatgggacgc gagggataca gaggatgcta tgcattctgcg cgtggacatg cctgggctcg 480
gcaaggacga cgtgatgatc tgcgcggagc acaacactct cattatcaca ggtgaagggtg 540
ctgaagaagg cgatgaagaa tacagcgctc gtcgctacac tagcaggatt gacttgccgg 600
acatagctct acag 614
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<210> 11346

<211> 361

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130h04d1

<400> 11346

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cattgacatt taaaattcaa actgcattag acttttaaac aggaggggtca ttcacaactc 60
tatataacaa tgattacaga tacgtttgaa gtttcaaac caaacacagg aacaatacta 120
ttaagctggt atatgtacta actagattga tcaccaccta ataaacgaaa actaaagagt 180
gggtgctgatg caaaatggcc aaatcagatt gggttgttgt actcaacctt aacactgaac 240
acgtatgtcc tctgttccta cttcattatt ggcacaacga ccttgagcac accgtgcttc 300
atctcagcta tgatcagggc aattttgtag agcttggccg gcaagtcaat tctggtagtg 360
t 361
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<210> 11347

<211> 607

<212> DNA



<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220130h05a1

<400> 11347

ctctaacttt cctgatggtg gtggtgggag gaaccaagct aatcgaaggg aaaatggagt 60

caatcacact gcagagagaa gtcattgctt gtttactcag ccagtttcac agaaaactaa 120

gactaataca acatcttaag ctacaagagt ttcagctggt gcaccccatg gtgctgcaaa 180

tcaatccaat gggaaatcag gtcattgatt tgctggccaa tctcccatag ttagtggtacc 240

taaaagtact tcagctgcta aggacactgg ccatcaagaa aatgtccaac ctcaagcagc 300

tggtgttgca gcagcattct cccctagtca aacctctggc tcagttacta ccaactgacca 360

aggaaagtct gtgtcaagtt ctgatcaact tcaaacttct gtatccaatg tccattcctc 420

tttggtatct gtagtagcat catctgtctc ccggaatcct ggtgtgagtg gtgcaattag 480

tanggaagtt gggagcaact ggatatctgc cggaccaaata catgttaaag gaaataaagt 540

tggtcatgaa gttaatggat tatcggcatc caagaatgac aaatatgggt ccatgaattc 600

aacgagc 607

<210> 11348

<211> 511

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220130h05d1

<400> 11348

gctccaaata aaattgtata attcaatgtt ctctgatatc aaaatgtaat atacaggtga 60

gaatttagaa cggaaaaatt ggtaaatctc acctaccaat tcttggttta gtatattatc 120

actaggaatt accaagggtc ttatatagca acaactaaat gttctctcgg gtgaaagagg 180

tgagggataa ataaattgga ggctcaaaaa tagaaggaaa aaaatagaga aaaagaaaaac 240

ctgcaactag cacccttcaa aatcgtttag accaaatata tccacaaaaa acagttaata 300

attttcttct tctcattctt tggccacatt tttatttaca cttcagatca ggccagtgtt 360

catacttctt gcattctgagc acaccatgtg tgcatatgaa cattatcgca ccaagaaaat 420

gttttccagc ctaaaaatta gagttccaat tgatctgtgc aggctgaggt ggctgataag 480

atcctgaagg ggggcctaca ttttaacagg c

511

<210> 11349  
<211> 616  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220130h06a1

<400> 11349

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ggaaagaaat tgagaatgaa aatgtcgatt ctactgttcg gttgatgcgg gaccagatca 120  
ttatggcaag ggtatattta aagcattgca aagatgaaga acaaggtcga actgtacgaa 180  
gaactaattt accggctcaa agagagtcaa catgcttttag gtgatgcagt ttctgatgcg 240  
gatctacatc gcagtacaca tgggaaaata aaggctatgg gtcaagttct atcaaaagca 300  
agagagcaat tgtatgactg caacttggtc actggaaaac taagagcaat gctacagaca 360  
gctgatgatc aagttaggag tttgaagaaa cagagcacat tcctcagtca gttggctgcc 420  
aagaccatac caaatggaat tcattgctta tctttgcgcc ttaccataga ttactatctc 480  
cttcctcctg aaaagagaaa gttccctggg agtgagaatt tggagaatcc cagtctttat 540  
cactacgcac tgttctcaga caatgtcttg gctgcatctg tgggtgtcaac tcaactttat 600  
gaatggcagg atcctt 616

<210> 11350  
<211> 507  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220130h06d1

<400> 11350

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ttgtacaatg aggaggtttt atggtactaa acaaggta caacttttgt accttgctta 120  
aaatgggtga ctggggtagt gaacaaatta aatgaattga aagcaagaat cgagggtgga 180  
aagagatgat gttgggggac aaatatagat catcattcta gcaaagacgc tgtagttgaa 240  
atagccaagc cagaaagggt atagaaaata tcagagaatt cttctctgta ctttggacca 300

aattatcagt actattcatt tagcttacag tttcaaagat agggatgatt gtacttgaca 360  
 tacttggccc agtaagaccg atattttgtc atggcaattt ctaaccatgg tttcatatta 420  
 ccattgtagt gtacaactgc tgcattctca atctctgac gatccaaact tggattataa 480  
 cccaaaccaa gtacatgccg tgatttta 507

<210> 11351  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130h07a1

<400> 11351

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 gagggagcat ctgtccaagt gagaaattgg tcatatggga atttatctaa tagagacgca 120  
 cttcgttttt ctctgccgtt atgaaatatg ccaatgagag ccatgttgac ttaattgttg 180  
 ccgacgttgt tgggtctgaa ggggctgctc cacctgaagt acagattgaa cttttcaatg 240  
 ctcttattga tggctgtaca gaagcagtag aactcggaaa tcttgatgca gaggggcctt 300  
 tgctggattt tctcggtgta cacagtgaag gcaaatgac tacttaccg tgttcaacaa 360  
 cttcaacttt tggcaaagct cattggctga tctgaagac ctattgcaca atttcgtgtg 420  
 ctgacatatt tcaaaccatc aaactgggtc aaagggtgag gatggaatca aattgatgat 480  
 gctagattgc ttcttgaata cattaccatg gg 512

<210> 11352  
 <211> 457  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130h07d1

<400> 11352

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 cataatactt tatggggcga gcagtaaaat cgaataaact cgcaaaattg acagtgtc 120  
 agaccctcaa gttgtctata gcaagtgggt aaaactctgc gctttccaag atcttggcca 180  
 tgaccctttg cttggccata tcttcgaagg agtcgaaatc aaaacggaaa aggaaacaca 240

ttggcaagac tcggttttaa tctggcatta gatcttcccg gctccagcca tctccaagga 300  
 tgtgaacccc aatgtaggga tatttctcat atccgccgat acacacaaaa atgggatccg 360  
 caagggctta ttcgcatggg tggaagaaaa aaattccaca cattgtacaa ttgctgaagc 420  
 tgtataaatg cagagtgaaa gccaaagcgc cacactc 457

<210> 11353  
 <211> 459  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130h08a1

<400> 11353

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 tccagttcgc agcggaaaaa tggcgatcgc ggtcgatctg agcgactaga gtgcctacgc 180  
 ggtacgctgg gcggagcata actacctgcg accggggcgac gccgcatcc tctgcacgt 240  
 gcgtcccacg agcgtcctct acggcgcgga ctggggcttc gtggatctga gcgcggcgga 300  
 ggacggcggc gacgaggagt cgcggcgtaa gctggaggac gacttcgaca acttcacggc 360  
 gacgaaggcg agcgacctgt cgcatcgct ggtggaggcg cagataccgt tcaagatcta 420  
 cattgtgaag gaccacgaca tgaacgagag gctctgatt 459

<210> 11354  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220130h08d1

<400> 11354

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 agtggatcaa gagcctccaa atcaatcgtc aaagtagaaa ggtagcacat tcaaccctgg 120  
 tcaatgggta ttgaaacact ggagaaacaa acttgtacaa aagcatacaa ttgctaacca 180  
 accaaacgac cactttacaa tgtatagttt gttcaacgaa gatacttctc aattctaaca 240  
 cattcttctt gatttgacac atgccttgct gctgtgagca gtttctgaag tttgtaggga 300

aatagacatt gctctatact ttcattaagc atctgtgtgc tcatcggaag catcatgata 360  
 cacctcatgc tctctctccg gcacaggcgg aagctccacc gggtcccca cctgcacaac 420  
 aagaccacca gcaccggtac cgttaccgtt accgttatcg ttctctcggg tgttgcgcac 480  
 aaccacaacg ggacaca 497

<210> 11355  
 <211> 593  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130h09a1

<400> 11355

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 gagtcggaga ttagtgaaac aactatcctt aaagatctgg atctaaattt catatttcga 120  
 ctacaaaaat cttggtttca aggattttgc aggcaaattg atagggactg tgagcttctg 180  
 gaacaagagg gaattatgga ctatagcctg ctagttggta ttcatttcaa agatatatca 240  
 gaaaatgggtg atcttatttc ttcaagatct catactcttg ctggcgattc agagagtga 300  
 ggaactcctt gtatttctag agtagacatg gatcaacttc ttctagatcc taccagttgg 360  
 gcgagtatca aattgggggt gaacatgcc acaagggtg aaaggacggt gaggagaagt 420  
 ggatgtgaat tacaacttgt aggagaacca attggagagt tctatgaggt ggatctgatt 480  
 tttggtatca tagacatact tcaagactat gacatcagca agaagctoga gcatgcctat 540  
 tagtccattc aatatgaccc aacgtcaata tctgacgtgg atcccagaca ata 593

<210> 11356  
 <211> 497  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220130h09d1

<400> 11356

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 tatattctag cacaaaattt tcttgcttcc agcatttcat catgtatact atataattac 180

tgccctatat atacatagaa ataagctaata taagatcaaaa gttgaaaaaa atggatttgt 240  
 acccaaagtc acatggacct caattgtggt tccaatagtt gaaaaatttc aaggctaccg 300  
 aggttgagag tagcgagggt atgaatggaa tgtaacagcc acataattgt gtttggtttt 360  
 caagagtctt cagaaaatat tttaaataatg aagtcacgaa aacgccttga atattgtctg 420  
 ggatcaacgg cagatattga cgttgggtca tattgaatgg acttataggc atgctcaagc 480  
 ttcttgctga tgtcata 497

<210> 11357  
 <211> 505  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220130h10a1  
  
 <400> 11357

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 gttgaatgaa ataagtgaga taattcgctt tcccatgtat gctgacagga tcagaattga 120  
 tagcaaagcg aatcagcatg ctaatgtcgc aaggcgaagg tgatttggtg gtggttttaga 180  
 tcagatcagg gacttttatg ccttcaatct ttacattggt ggtagtgggt gacatcaagt 240  
 gaaaacaaga tttcgtgtat accccgatac ttgtctctgg gatttgaatg aaattgtatt 300  
 ggttttggct atgtattttg gccatcatcc aaaagatgct tatattatgt agatagttag 360  
 tccttgcggt aagtattgct gtgctgctga gctgtatggt gcagtttagta cggctcaaatt 420  
 tccggcttga atccatttac tatgagatgc cagatcaaga gagttaggtg tagaatctca 480  
 natctcaatg tatatcatca atttt 505

<210> 11358  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220130h10d1  
  
 <400> 11358

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acctgggggtt tgggtgtttgt acatattctt aacttaatcg tgcattcatga atatgaggct 120  
 agcataactaa cactgattct tttttcacac ccatttatct gaaccttata cattttcacc 180  
 tctgtgaatc cgttcacaca attgcctccc ttcacatcct tccagaacaa caacatggta 240  
 gattttccaga gctactttta taacgagtag cattgactgg gcttccatca gacgtgctaa 300  
 gtaacaaatg tgatgctggc actgttgaca cagccttaac gcatgatgac actttcacat 360  
 gcgcaaaaaca ttaaagtga tggaaggctt gctactacta aaattaatat tcacatacag 420  
 gggaaattct acccatgtga tggaacttgt ctataagaaa cggctaccct ttgaac 476

<210> 11359  
 <211> 553  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130h11a1  
 <400> 11359

agaaccctc tgcttacctg tcatgctttc ttatcctctt gatcattctt ttcccaacct 60  
 acgcacgtgc cgacctcccc ggacacgtggg agcttctcgt ccgggacgcc ggcatcgctt 120  
 ccatgcacac cgccgtcacg cggttcaaca cggtggtcct cctcgaccgc accaacaatag 180  
 gcccgtcccg aaaactcctc ccaaaaggcc actgccggtc ggacaaaaac gacgccgtcc 240  
 tgaagctcga ctgctacgcc cactccgtcc acctcgacct tgccaccaac caaatccgcc 300  
 ctttaaaaat cctcacgcac acctggtgct cctccggcca gttcctcccc gacggcaccc 360  
 tctccagac cggcggcgac ctgcacggcc tcaaaaagat ccgcaaattc tccccgtgcg 420  
 acgacgttc gtgtgattgg gaagagctca acgacgtcgt attggccgag ggccgatgg 480  
 acgccaccaa ccagatcctc cctgacgggt ctgtcatcat aatcggcgga cgcggctcca 540  
 aactgtcga att 553

<210> 11360  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220130h11d1  
 <400> 11360

agctaccgtg cgccgggggtg tcagtactcc gtttcaaaaa cgctccgtat tgtgcacccc 60  
 cacaaaccac aatctcagct ttagaatagt ctcttcttaa agctaaccatc gctgatgacc 120  
 ctgcggaagg gtagtttctc gggccacctt gtaatttagg gtattcctta acgatgacgt 180  
 ggcggttgaa atcgtagatg accgatcttg tgtagcgaa aacaaaaagg tgaccgtttg 240  
 ggagaaggcg gacgtagggg taaaggttat ccatttgcgt gtcttccgtt tcggataaga 300  
 aaggggaacga aacggcgacg ttttggttggt gtgggaagaa ttcgacagtg ttggagccgc 360  
 gtccgccgat tatgatgaca gaaccgtcag ggaggatctg gttggtggcg taccatcggc 420  
 cctcggccaa tacgacgtcg ttgagctctt cccaatcaca cgaagcgtcg tcgcacggtg 480  
 agaatttgcg gatctttttg aggccgtcga ggt 513

<210> 11361  
 <211> 570  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220130h12a1  
 <400> 11361

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 acgcacgtgc cgacctcccc ggcacgtggg agcttctcgt cccggacgcc ggcacgcct 120  
 ccatgcacac cgacgtcacg cggttcaaca cggtggtcct cctcgaccgc accaacaatg 180  
 gcccgctccg aaaactcctc ccaaaaggcc actgccggtc ggacaaaaac gacgccgtac 240  
 tgaagctcga ctgatacgcc cactccgtac acctcgacct tgccaccaac caaatccgcc 300  
 ctttaaaaat actcaccgac acctggtgct cctcggcca gttcctcccc gacggcaccc 360  
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 acgacgttc gtgtgattgg gaagagctca acgacgtcgt attggccgag ggccgatggt 480  
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<210> 11362  
 <211> 461  
 <212> DNA  
 <213> Glycine max



<223> Clone ID: jC-gmf102220130h12d1

<400> 11362

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 ctgcggaagg gtagtttctc gggccacctt gtaatttagg gtattcctta acgatgacgt 180  
 ggcggttgaa atcgtagatg accgatcttg tgtagcgaa aacaaaaagg tgaccgtttg 240  
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 aagggaacga atcggcgacg ttttgtttgg gtgggaagaa ttcgacagtg ttggagccgc 360  
 gtccgccgat tatgatgaca gaaccgtcag ggaggatctg gttggtggcg taccatcagc 420  
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<210> 11363

<211> 333

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131a01a1

<400> 11363

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 gtgggctcca gatgcacctt agcgcgtaga accacctccg tgccagttat gcatgcaacg 180  
 taccttactc tagtgtgtgg aaccctcat cttgtgggtt tgactcatcc tctggtgtgg 240  
 ccactggaat gccgaattac aggtccgccg cgttggcaaa gcgtagccac agtttcatcg 300  
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<210> 11364

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131a01d1

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cactttgagg tccacttgct agagaaaata catccattca cccgtagcga aaacggggga 120  
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 ttctccaag tcttcctga cctagaagtc ggaactcttc gttcaaactct ctggattaac 240  
 ctgaactttg gtctctgccca tatcatatct aatcctatcc ctaactataa tattgtgtaa 300  
 cgggtgcggat agtacaagca gcctcaccca tgaataaata agttcattaa tcaataaaca 360  
 aactatgtcg gaataaccaa gaagcattgt catggcagca gaccttgctg ctcatgctac 420  
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<210> 11365  
 <211> 583  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220131a02a1  
 <400> 11365

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 gtgaaagaac ataaagatga tgacacaaca caagagttac aagagccaga aaaagatggt 240  
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 gaaatcttat ccttccaat gtttaagaac tatacagctg gaaatcctgc tcctgtgttg 360  
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 cggatgaggg gtcaagcgtt tataacgttt ccttccattg agttggccca tcatgccttt 540  
 gatctagtga atggatatgt attaaaaggg cagcccatga tca 583

<210> 11366  
 <211> 295  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131a02d1  
 <400> 11366

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 aaaaccctaa ttggcccacg ttgggggaac ccaagttccc atattttggg ttcccccgcc 180  
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<210> 11367  
 <211> 619  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220131a03a1

<400> 11367

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 accggaggag aattgctccg ccaagcccac caagcagggc gagggcctcc gccactacta 180  
 ttctcacaac atccacgagc atcagctcct tctccgtcaa aagacgcata acctcaaccg 240  
 tcttgaggct cagagaaacg agctcaattc cagggtgagg atgctgcgcg aagaattaca 300  
 gcttttgag gaaccaggct cttatgttg tgaagttgtc aaagtcattg gcaagaacaa 360  
 agtccttgct aaggtccacc cagaggaaaa tatgtcgttg atattgacaa aagtattgac 420  
 atntacaaga ttactccatc cactagaagt gcacttcgca acgacaggta tgttcttcac 480  
 ttagttctgc caagtaaaag tgatccattg ggtcatctga tgaaaagtga gaaaggtccc 540  
 gattctactt acgacatgat tgtggtttag acccagcaaa taaagaaaat aaagagtcac 600  
 gagtaccaat caacatcct 619

<210> 11368  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131a03d1

<400> 11368



0032200 "EFTF560"

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cccatcatca gtctatgtta tatgcatact gaagacagag atgaagtggg tgatacaaaa 180
aggcataaat cataaatatg aaaagcttat tgaatgatta caaatcagct cctcagacaa 240
tggagtggct atgtgtgact gcattgaaat taggtaatcg atttcctggg tatagt,ttta 300
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cttaagcttt ggtgaagcta gcatcgaaag gaacgccagc agcaggcaac caagtgctag 420
cttggagcca aggctcagca gtgaattgtg cagcctcctg cttgctaata agacctttgc 480
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<210> 11371
<211> 601
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<223> Clone ID: jC-gmfl02220131a06a1

<400> 11371

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gacagccaac acagagaggt acagcaacct agttgtggga ctaaagcaca ccatggaaaa 120
cctctttgct tccttggaca ggaacgaggc tgagatttcc ccttccacct tgtatgccat 180
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agggtgatt gatctggcca tcaagaggaa cagtttgatt ggaggagatg actttaagag 300
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<210> 11372  
 <211> 398  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131a06d1

<400> 11372

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 aacagaatag aggggtatgg gatatgagtt aagttttgat cacattgaac tacactatcc 180  
 caaaccggta ctcttaagac tttgaacttc acgttgcaact ctaggatcat gttgtttctca 240  
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<210> 11373  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131a07a1

<400> 11373

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 gcctcacact cacacatata cacatctgaa cgcgtagctt ccttcccatg gcttcaaagc 180  
 gcatcctcaa ggagctcaag gacttgcaag aagaccacc aacttcttgc agcgctgggc 240  
 cagtagctga ggacatgttc cattggcaag caacgattat gggctctgct gatagtcctt 300  
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 ccaagggtgc ctttaggcta aggggtgttc atccgaacat caacagcaat ggtagcattt 420  
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 acatgtacaa aactg 555

<210> 11374  
 <211> 285  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131a07d1

<400> 11374

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 atttttatca aattaagaca ccgcccttcc ctatcccctc ataacaaca taatcttacc 180  
 ccagaaaaac aggaagagaa aagctaaccc accaaagttt tcatagatgc catccatttc 240  
 aatatacatt atctaaacac atatcagccc atggcatact tgtgg 285

<210> 11375  
 <211> 549  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220131a08a1

<400> 11375

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 tgggtgggtcc aactttgttg cccctgggta caccaagggt gatggtcttg gtgctgagat 180  
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 attcatcgtt gcagctcttg cagcactcta ccaccgggtc gtaatcaggg ccattccctt 480  
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<210> 11376  
 <211> 559  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131a08d1

<400> 11376

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 acacatgcac cacctaataa tcataatttt acatctttac atacaaaata caaagacttt 180  
 aaatttttaa aagaagaaaa gagataaaca gatcatctta atgaaatgaa accaaaaccc 240  
 acaaacattg gcttgatttt tgttgttgtt gttgttccca acttgattaa gcatgaaccg 300  
 tttgattgaa tcacttggac ttgaagggaa tggcctgat tacgacctgg tggtagagtg 360  
 ctgcaagagc tgcaccgatg aatgggtccca ccagaagat ccagtgttca tcccaaccaa 420  
 ggtccttgtt gaagatgata gcagcaccaa gactacgagc aggggtgata ccagttccgg 480  
 tgatggggat ggttgccaag tgaaccaaga acacagcgaa cccaattggc aagggtgcca 540  
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<210> 11377

<211> 512

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220131a09a1

<400> 11377

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 gaatggtacc gttgacttca gagcttaaga gaacagccgg tgtctttgct gaaactgcat 180  
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 ttgggtgcaa agaaaatttc ctatattgtg ggaaccggca catggaaggt tatagtgctt 360  
 ggaataaaac aagtgaagat attcagtcaa ggtgctctgc gatgngtgat cctgcacatt 420  
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<210> 11378  
 <211> 531  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmfl02220131a09d1  
  
 <400> 11378

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 aatacattgc tttcgacctt tcttcacaaa ttcaatcatc atagtcaacc aaaacaagca 240  
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 ggtttctgta gtttcaactaa ctccctggca gtcttgcaa gtcgattgag atgtacacca 360  
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 ccaccaacat tttcatgagt tccgtctgac tcatcttctt tttgacgaag cttcataatt 480  
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<210> 11379  
 <211> 550  
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 <213> Glycine max  
  
 <223> unsure at all n locations  
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 <400> 11379

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 agccaagact ggtggatttt cagaagagcc agaattattgt gcctgtggaa atgacatctg 240  
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 ccaaagcaaa agaaatttca ttggatggat gctgaggaag cgggagcatc tgcacaaaac 360  
 ggttgagagt gagcttgcct cgggatctgt taaaaagcaa gaaggaatca tgaggaagtg 420

ggacttcggt gataagggtc ttttgggtgg aatatctatc agcatcttga cgattatggc 480  
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<210> 11380  
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 <212> DNA  
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 aaaactaaaa cctttttattg ggaccaaata actctaaaca taacagctac tactagagcc 240  
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 ttctcatga ttctttcttg ctttttaaca gatcccgagg cgagctcact ctcatccgtt 360  
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 <211> 417  
 <212> DNA  
 <213> Glycine max  
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ttcattgcag gggcatgttc aaatgaaaac tgtttttctt tttgtgcatt tctttgcttc 360  
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<210> 11382  
<211> 401  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220131a11d1  
  
<400> 11382

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gtatattttg tggggtgtga aaagcataac tattgctgct gcataaaaac atttctggga 240  
atatagagct atattatctc aatcacagat cgaccgacaa tttttccttc attgagatct 300  
tggaatgctt ttcccgctc ctcaaaagtg tatgttcttg aaacagcatg gccaaagactg 360  
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<210> 11383  
<211> 576  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
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gagaaatact aaatcggtcc atatcgaatc cagaattttg gttcttttca aaatttgtga 180  
tattttatga cgcataatagg ggtaactcgc aggttatacc aatcaaatta cttttttttt 240  
cttctaattgt aaatcaaaat gttagtgaat ataaaaagaa cattactaga aagaaaaaaa 300  
atgaatctct tgaattggag ttagagactc gaaatcgggc aaaagcagaa taccctgatc 360  
aacgaaatct tgaatcatct atctcaaacc aagaaaaaga tattgaaaac gattatgtag 420  
gatcagacag tgaaaagaat agtcagggtg taaagaaaaa gaaagacaag aacaagatgg 480

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<210> 11384  
<211> 586  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131a12d1

<400> 11384

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<210> 11385  
<211> 539  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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<400> 11385

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tacacgctca cccaagatca cactccctct attccacgcc agttaccagc acctaacagc 180  
atttccttca caatcccttc ttttctccta tcaccttctt cgctatgcta atgctagaac 240

cctccgcgcc agaacctcct ccaaaccat tttccttccc cacttaattg cttctctgga 300  
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<210> 11386  
 <211> 583  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131b01d1

<400> 11386

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 gccaggaata ggcttggaga atccgagtca aaaagcaaaa ttttacaaaa tttagagttac 120  
 tgtttaaact cgattaatgc agttattgaa cctagaaacg gcaagaatca ttctaattgg 180  
 gcatctgtgg tttattattc tctcagccat ggtgattgga ctgggggtcca atcgcatact 240  
 tcgccttcct tgaaccatag agctatttca cgcttgccat tctcagggct gtcactgcc 300  
 tgaacaacat tccttctgt ttgaacagca aggtctcttc ttattgtgcc tgggttcagct 360  
 tgaagaggat ctgtagcccc tataagcttg cgtgccgatg ccactactcc aacaccctcc 420  
 caagccatac acacaacagg acctgaagta atatagtcaa tcagcttatg gaaaaatgac 480  
 tcttgtttta agtcctttgt atgcttctcg gccaatcct ttgagcactg gaagagcttc 540  
 aagccagtta cttaaaccct ttttctcaaa cctagaaata ttt 583

<210> 11387  
 <211> 400  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131b02a1

<400> 11387

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 tttcgccaaa atttgagcag gggacctctc aaaatattga cgaggtggct catattcctt 120



tgccaatatg ggagatcatg caagagtttt tcgatcc

337

<210> 11390  
<211> 339  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131b03d1

<400> 11390

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agcaaccgga aatatcatag tattcaatca tttcggcatt aacaacaacc tcggaatacc 120  
actctccgaa gttctccgcc ttccgatgcg tgagacctaa gccagtctcc ttcttcacct 180  
cctttcttctt cccaccggat tgcttagcgg cagggtttttt ggattcagtt ttttttgctt 240  
cagttcccgcc catcgtgaag gacgagcacc tgatcccgtt gcaaagaagt cgaaggcgat 300  
tgaaacgcgc aagagcgatt gtggcgtcac ggttgaccc 339

<210> 11391  
<211> 372  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131b04a1

<400> 11391

gggtcaaccg tgacgccaca atcgtctcttg cgcgtatcaa tcgccttcga cttctttgca 60  
acgggatcag gtgctcgcc ttcacgatgg cgggaactga agcaaaaaaa actgaatcca 120  
aaaaacctgc cgctaagcaa tccggtggga agaagaagga ggtgaagaag gagactggct 180  
taggtctcac gcatcggaag gcggaagaact tcggagagtg gtattccgag gttgctgata 240  
atgccgaaat gatcgaatac tatgatattg ccgggtgcta tattctgagg ccttggccaa 300  
tgccaatatg ggagatcatg caagagcctt tcgatccaga aacagccttc atggcttgat 360  
gatctccaaa aa 372

<210> 11392  
<211> 339  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131b04d1

<400> 11392

ctggatcgaa aaacttttgc atgagcttgc atattgtcat tgaccaaggc ctaataatat 60  
aacaaccgga aatatgataa tattcaatca tttgggtatt aacaacaacc taggaataacc 120  
actctgcgaa gttatccgcc ttccgatgcg tgagacctaa ggcaggggcc tttttcacct 180  
gcttggttctt accaccggat tgcttaccgg gaggtctttt ggattcagtt ttttttgctt 240  
caaatcccgcc catagtgaag gacgagcacc tgatcccgtt gtaaaaaagt caaaggcgat 300  
tgaaactcgc aagagctatt gtggcctaac cgttgaccc 339

<210> 11393

<211> 557

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131b05a1

<400> 11393

gacgcagtac ataacaactt ttgtttcctt ggccgcccga caccaacatg tcagccttca 60  
ctatttccaa caacgccgcc gccgccaccg ccacgtggcc actcccccaa ttcaaacactt 120  
gccactttcc gcaactctcca tccattgttc ttcattcttc cctcctcaac atccgcgctt 180  
tcaggatcca ctgtgtccct caagaacctc tccccccatt acaacaacaa cccaaacacg 240  
atcaactttc tcccggaggc gacggaggcc acggtgacgc cggcgggtggc ggaggcggag 300  
gcggagatgg aggtgaagga ggaggagacg aagagttcgg acccttggtg aagttcgaag 360  
cggttatgag agaattctgaa gctcgtggtg ttaagttgcc tccggatatg gtagaggcag 420  
cgaggatcac cggcatccgg gaaatgtttc ttcttcgtta cttggagttg caaggttcgt 480  
cttggccact gtcttttctg atgcagcatt gtgctatgct gagaaatcga atgctagctg 540  
acccttcttt tcttttc 557

<210> 11394

<211> 95

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131b05d1

002220131b05a1



<400> 11394

atatcataaa cacttcaggg ggggtctgtg acaacatttt catccttaaa aaaaagcccc 60

accacagaaa aataggggac gaggtccaat cgctg 95

<210> 11395

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220131b06a1

<400> 11395

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agtcacact cttcaacccc acccattccc ttatccacac ttcaccacac tctatcagac 120

ccaatcctgg tcatgctgct ctctccgac gcgccttcat cgccgtggaa acccccacgg 180

agactgtgaa tctgcacaag gactgttacc gcatcaccga gcccaaattg tatgggcgct 240

cccaagccgt gctctacggc gactgtctct ccgcggacga catggccaaa cccacgcgg 300

acgcctgctc agcctggtac gagggcatca cctgcaacat gcaccttctt cacctctccg 360

aggccgttcg cgacagcgct gctgctgctg acatggacac ctcccgcttc acaccgttgg 420

cgtaacgac gccatctaca tgagcaccgg tggcatgtgc tacagccttc agtcagtg 480

cctcattgcc tacaggatcg ataccganat ggcataacac tggtaccatg gcaatatt 538

<210> 11396

<211> 395

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131b06d1

<400> 11396

agattactta atgtactcac ggtgtgcaca taacgtgtgg tagaaccaac attatcatcg 60

ttaaaatcaa gctagtcac ggcaaggcac tatgcatgag agtcctaagc ctacttttgc 120

agtggccatt tcggtgaatc cttagtgtct actgttgcta actaacaatg gcagctatgc 180

ctgacactag aaacagggta gctctagaaa atcataaata ttaaatagtc actaatcaat 240

agtagcaatc caatttcatt gctgtaaatt ctctgcaatg aggtatggat ttgaattttt 300

accaacttgt actggaaaca caagacaaaa tgtcaccacg gcatactatc agctttttgct 360  
ctgccggtat gtctatctac tcggctgtta cgcac 395

<210> 11397  
<211> 377  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220131b07a1  
  
<400> 11397

ctcccaccgc aacacagaac ccatggagca gagccccaac ccgactctca gttcatgtac 60  
agtccatact gtttgaacct taggaacgcc tcttcactc tgcagaattc tctatcttaa 120  
ttgttcttga cactgcggat ctgatgacc gtgctgtaat tgccaagtct aatgctgac 180  
ataatgagct tgagccactt gactgttacg aggaagcaca accctatctc tatggctctg 240  
tctgagctgc gctgattctg cgctgcagct gaccagcacg accatgcaaa gatggctacg 300  
attccgtact agctttgcc tataccttac caggattcac tcatggcact tgaatctgag 360  
atacagcacg ctactgc 377

<210> 11398  
<211> 245  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220131b07d1  
  
<400> 11398

ctgatataac gtaggggtgcc ctatagtcag gaactacaaa atcaaacttg taaacgtgga 60  
cgccctatgc atgcaatctc taaggttact atagagggtta ccatgagggt gaaacccgat 120  
tattgactgt acccaagcaa cagtgggttaa tctgcctgaa tctgggaaca aggtccccgt 180  
atataattat aaatggtggc ctgatgctcc taaatggtga tactcatatt gcactgcacg 240  
aat 245

<210> 11399  
<211> 457  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131b08a1

<400> 11399

cacacatggc aatgaagaag cccttgtggg ttgatccgtc cctatgttcg gtccttggac 60  
 tggccattag ctttgattct cacgacaagg atttggagtc cgaggaaagc ctgtgggact 120  
 tgtacgagag atggaggagt caccagacgg ttccgcgaat ccttgggtgac aagctcaagc 180  
 ggctgaacgt gttcaacgcg aatgtgatgc atgttcataa caccaactca atggataagc 240  
 cttacaagct gaaactaagc aagtttgctg acatgaccaa ccatgaattc aggagtacct 300  
 atgctggctc acaggttaat caccatagac tgttcataga catgccacgt gggaacggga 360  
 ccttcattgc tgctacggtt agcagtgttc ctgctacagc ggattgtatg aagacaggtg 420  
 ctgtaactga tgtagcagat caggccattg tggtagt 457

<210> 11400

<211> 481

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131b08d1

<400> 11400

gtaataagca tatatatatt gatggatata ctggcattgg atcggagata ctaatagaaa 60  
 acaccaacca aagctaatta gagtatgatt ttgtgggaag cattcaaact tcaaagttca 120  
 tctttaggag atgatgaagg tcctgacgga ttattggagg agtttttgat tgggtaggaa 180  
 gccaacatag ctatgccaca aagaccctcc ttttagata tggtcctttg cattctgatg 240  
 taaccctgtt ctccccattc tgggtcccaa gagttcctca ctatccagta actagtccca 300  
 tcaacagttg ctacataccc cacaatcgcc acaccatgat ttagctccgt gctacaatca 360  
 ccagtaaata ctgcctcgga gtataactgg aaatcagata ccccggcac aatggcttca 420  
 gaaacaggtt ggttggcgac agctttgagc aatgcatttt catgggtacc aggtacattc 480  
 t 481

<210> 11401

<211> 356

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131b09a1

<400> 11401

gttctatttt gtgaatgtaa ccatagtga tagagccgct attctgcaca ttccatggac 60  
aggaccttat tgttgattct gaataggagc tgaattatgg aaagcattat gtgtgactct 120  
tattcaatgg atgggggaaa tacacaatgg ttacaggcat cctttgtgag gaactcacia 180  
tgcccaacct catggacata tatgatatgc ccagggatat cgctgcctct gaggtgactg 240  
catagaaagc tgtactaagc tgggacgatg acagaacgaa ccatgagatc gagactacct 300  
gctgctgctt cacaggatga tagacgtgac ggatcccatg cagcatcta tgaacc 356

<210> 11402

<211> 407

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131b09d1

<400> 11402

gttattatct tttttttatt gatggttaca ctgtcttttg tatcggagta tactaatatt 60  
aaaacatcaa tccaaagcta actagaggat gattttgtgg gaagcatata aacttcaaag 120  
ttcatcttta ggagatgatg aatgtcctgt cggattattg gaggagtttt tgattgggtt 180  
ggaagccaac atagctatgc cacaaaggcc ctctttttta gatatgtgcc tttgcatcct 240  
gatgtaaccc tgttctcacg attctgggcc ccaagagttc ctactatcc agtaactagt 300  
accatcaaca gctgctgcat accccataat cgccacacca tgatttatct tcgggctaca 360  
atcaccatga aatactacct cggagtataa ctggaaatca gagacct 407

<210> 11403

<211> 509

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220131b10a1

<400> 11403

gagtctttct ctgctgctgc atcaaaaagct tctgcagcac catcttcagc cggaataact 60

cctccagctg tgaaaattaa tgaaactgac aagatgtggc attaccagga tccatctgga 120  
 aaagttcagg gaccattttc catcgtgcaa ctacgcagat ggagtaacac aggatacttt 180  
 cctgctgatt tgaggatttg gagaaccact gagaagcacg atgattctat actcttaaca 240  
 gatgccttga caggggaattt ttctaaggaa ccatcaatgg tggataaagc tcaatcgggg 300  
 catgatgtac attaccatc atcatactct aggaagtctc cagacaagg tatagaaggt 360  
 caagtaggag aaagactgtc attagatcag aatgggtggat cttggaattc acatagtact 420  
 ctgggttctc cgggacaaac cacagganga agttggagat ctaaagataa tatgaactct 480  
 atagctaata gaacttctcc attggcagt 509

<210> 11404  
 <211> 342  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131b10d1  
 <400> 11404

ttgagatttt tttttttcta acgtgatttt ttccgattg tatcatttgc ctaaaagggg 60  
 cgtgaactct gttatcgtct gaaacttggc attagtcagg ggcgcgttaa tccctgccgc 120  
 gatcgacgac tgaatagat gatggagagc cccgactcgc acaggtgtct cagacctagt 180  
 acatgtctac actacgcacg acctctactt cggagagtac tgttccgtgg cctactttct 240  
 cctgccacgc tggagcgagt agtacagcaa cgtgagtacc ctgttggccg atgtcccctt 300  
 cgagacagat gcagtctgct gactcttggg gtccaccgtc tg 342

<210> 11405  
 <211> 476  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131b11a1  
 <400> 11405

gtgtctctgt ctgctgctgt atcaaaagct tctgcagcac catcttcaga cggaataacg 60  
 ccttcagctg tgacaattaa tgaacctgaa aagatgtggc atcaccagga tccatctggg 120  
 aaagatgagg gaccattctc catcgtgcaa ctacgcacat ggtgtatcac aggatacttg 180

cctgctgatac agaggatttg gagaaccact gagaagcacg atgcttctat gctctcaaca 240  
 gatgccttga caggggaattt ttctaaggaa ccatcaatgg tggataaagc tcaatctgtg 300  
 catgattcac attacccatc atgatactct aggatgactc cacaacatgg tatccaaagt 360  
 cacgttgtag atagactgac atttgatcaa actggtggct catggcattc tcatattact 420  
 gtgcgtactg cgggacaagc cacaggagga cagtgaagaa tctaatagat ctacga 476

<210> 11406  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131b11d1

<400> 11406

tttagttttt ttttttatta acgcgctttt ttttcgagat tattattaga ctaaacgccg 60  
 ctgatgagag ctaaaatact taaccctgtc agtcatcaat caccatcatc actttacact 120  
 caatgacaag ctgccacaaa tgccacagat tgtcctgagc acccatgacc cgactatgtt 180  
 gcatgtatca aagacgcac cactttatac agaagtcac tgtccggagg ctaatatctt 240  
 tctccgcctt ataggtcacg cggcccacgg caagtctaca gtggcgaaag caatatcctg 300  
 tgtg 304

<210> 11407  
 <211> 574  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131b12a1

<400> 11407

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 cagcacactc ctccgtctcc tcccacgacc tctgcgcaat cgcacgttgt cctttggaca 120  
 acattgaaac ctccgattgc tcttctgcca cgtgtcctcc cttctactat gcttacggcg 180  
 acggaagctt catcgcgcac ctccaccgcg atacactctc catgtctcag ctttttctta 240  
 agaacttcac ctccggctgc gccacactg cgctcgccga acccaccggc gtcgcaggtt 300  
 tcggtcgggg attactgtcc ctccctgcgc aacttgcgac cttatctccg aacctcggtg 360

accgtttctc ttattgcttg gtctctcact ctttcgacaa agaacgagtt cgcaaaccga 420  
 gtccactcat tctcgccac tacgatgatt attccacgag cgtgttgagt ttgtttacac 480  
 ctccatgctt cggaatccga agcattctta tttctactgc gtcggactca ccggaatctc 540  
 tgtagggaag aggactattc tggccccgga atgc 574

<210> 11408  
 <211> 516  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131b12d1

<400> 11408

caaacaaaat aataattatt attattatac acaaaataaa tatcacaaaa ttaaaatata 60  
 aaaaaatcta accctgtagt tcacgtttta gttttgacct agtgtcaatt acatacacat 120  
 gatcgtggaa ttggggaacg gagcctgaac ccaaaccxaa acccgtcaac ttattttcca 180  
 ttacaagat ccgacccgac cactggcat gggggcagtg atccagtggg aaacagaaca 240  
 cagtaacact agtttttgtc acggttgaga ctatcccaa ggcacgcgca ttgcctctta 300  
 tcaaaaccca cgcgctgggt ttccaagtca tacacgacct caaatccttg ctgttgatag 360  
 ttcccaagta tggccccggg cccaccgctc agttcagtg catcaccacc gttcattagc 420  
 atcagacagc ccaccttcct cctagcctca tcctcaccgt ccaagaactc gtaaaaaataa 480  
 ttcacctag gcagcatcac attggaatta ttcccc 516

<210> 11409  
 <211> 564  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131c01a1

<400> 11409

gttcaattat agcttctcat ggaagccctc cgcttcacgc aaaaatgtag tcaagaagaa 60  
 cagcttcata tcaagacaga catcgaatga aggacaaagt ttccttccaa aagaagagga 120  
 aatgaaatgg gtgttccaga aatttgacac caacaaagat ggcaagggtt ctcttgaaga 180  
 gtacaaggct gctgcaaggg ccttgatag ggccattggg gaagctgaag cagtgaagac 240

gtttaggggtc atggacactg atgaagacgg cttcattgac ttcaaagagt tcatgaagat 300  
 gttcaatgaa gagggtagga taaaagaaac tgagatcaag aatgcttttc aagtgtttga 360  
 tttgaacggc gatgggaaga ttagtgctga ggagttgtcc caagttctca aaaggctagg 420  
 agagagttgc agccttagtg cctgtaaaaa aatgggtcaaa ggagtggatg ggaatggaga 480  
 tggctctatt gacttgaatg agtttacgag gatgatgatg agtgggaaga tactatgcta 540  
 agtattatga ctttggaata taaa 564

<210> 11410  
 <211> 521  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131c01d1  
 <400> 11410

aaaaacaaaa catttgcctt atagtaattt atatcagaac attgcacccg attactaaca 60  
 aagcaggaca gtcagttaat caccatacat ttaaccaaac tatctataac caatctactt 120  
 cacaaaaaaa gaagagaaac taaatattat aagacacaaa cttaagaaac actaaacaag 180  
 gtcggtcctt tatattccaa agtcctaata cttagcctag tttcttccca ctcatcatca 240  
 tctctgtaaa ctcatcgaag tcaataaaac catctccatt cccatccact cctttgacca 300  
 tttttttaca ggcaactaagg ctgcaactct ctctaacct tttgagaact tgggacaact 360  
 cctcagcact aatcttccca tcaccgttca aatcaaacac ttgaaaagca ttcttgatct 420  
 cagttttctt tctctaccc tcttcattga acatcttcat gaactctttg aagtcaatga 480  
 agccgtcttc atcagtgtcc atgaccctaa acgctttcac t 521

<210> 11411  
 <211> 310  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131c02a1  
 <400> 11411

gttcacttct agctctcat ggtagcccta cgcttcacgc ttacatgtac tcaagaagaa 60  
 cagcttcact ttaagacaga cctcgattga tggacattgc tcacttccaa acaatgagga 120



cacgtattgg gcgttgcaag aattcgacgc ctacatagat ggcgcggctt ctcttgaaga 180  
 gctccagggt ggtgcgcggg ccctgcatgg ggccattggg gaagctgaac cagggactgc 240  
 gttctgggtc atggacactg acgatgacgg tttgattgag ctgaaagagt tgacgaagat 300  
 gctcaatgaa 310

<210> 11412  
 <211> 332  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131c02d1

<400> 11412  
 aagagtgatg aatatgattc aaaatacaaaa acgacagccc tatgtaactg ataacgcac 60  
 attgcacaca tgttctagcc aatgatggca acgggataag cgccatgggt ctaaccactc 120  
 tatctatatc caactttctt cagcattatc gaagctaaac tcaatttcat tagacagata 180  
 ctgacgaacc tccatacaag gtcggacctt tatattccaa agttctaaag acaagccaag 240  
 gtacttgccc attgtccaca tcttgacaaa cgtattcaag tcaatcaagc catatggatt 300  
 cccatccact gattatgcca gttgtcaaca gg 332

<210> 11413  
 <211> 258  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131c03a1

<400> 11413  
 ggaacaacct gcagtatgct acttgggatt tttgagattt ccatgctcct accctcatga 60  
 aagggatgaa ctgcttctag gtatggaaac tctctcatcc ggatcagcac catgctgcca 120  
 agccgtgatc tgaaagtgga tattcggcgt agagagctcg agatcacggc actcaaaaac 180  
 ctctctata agaagaactt ggagtgcatt acacaaggac tattgctgcc tgtgcgcttg 240  
 tgatattgta tgtgctgg 258

<210> 11414  
 <211> 389  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131c03d1

<400> 11414

atataacata aaacgggtgg agattaataa cagtacacta acatgattac ttgaatagga 60  
aataaaggta tactatatac acaagaattt aaataagaat ataaaatatac tgagattgaa 120  
tactttttat acacactatg aaagacaaga cagattttcta aattaatatt tattgcaaca 180  
tgccatatga ctcacccgga gatagacgtt tggctgccaa aatattactg aacttgatt 240  
gagatactat gaataaactt agcctgttcc aaagtcacaa atctgaagcg agaagactga 300  
ccataacaga cttttttcca ccttatattg caaaagctaa ttccgtgtga atacaatgg 360  
gccatataat ggctaaaatc ttaaccaat 389

<210> 11415

<211> 225

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131c04a1

<400> 11415

gtaacatccc gcagacttcg acgagcgcag cgagacatgt caactcctat accctcgaga 60  
caactatgaa ttgctggcat gtgtacagtc tctctaatacc ggaatcgctc tctgctcctg 120  
agctctcatg ctcaagagcg tattcggcgt agacagctcg agattacggc acacagacac 180  
cgcgcctgtt cttcagctaa aagagcctga acccagcaca attgc 225

<210> 11416

<211> 137

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131c04d1

<400> 11416

atacattgtt aaataacaga atacaggtgg ggatcaataa caggaaaagg acctgaacaa 60  
ctcaaccgga cataaaccag gccatgatac acaagcagcg aaataaaaca gcaacatata 120  
cgagactgac tacatgg 137

<210> 11417  
 <211> 153  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131c05a1

<400> 11417

gtcacattcc gcagacttcg acgagggctg ggagacatgt caacttctat atcctcgaga 60  
 caactatcat gttctggcct gtggacagtc tctctaatacc agaatcgac tctgctcctg 120  
 agctgtcatg ctcatgacct ttttcggcgt aga 153

<210> 11418  
 <211> 88  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131c05d1

<400> 11418

atactatatt aacctacact agggggccatt ttacaatcca cggccatccc cacctttctc 60  
 ctctatgggt ctctgttctg tattcttc 88

<210> 11419  
 <211> 236  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131c06a1

<400> 11419

ctcacatgcc gcagactgcg acgaggtctg ggagagatgg caactcctat atcctggaga 60  
 cagctatcat gttcgggcct gtggacagtc tctctaatacc agaatcgac tctgctcctg 120  
 agctggtatg ctcatgaggg ctttcggcgt agaccggctg cgattagtgg acgcggacac 180  
 cgtgcggggtt aggcgggctaa aagagcctgt acccagcaca attgctctga gtgcac 236

<210> 11420  
 <211> 97  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131c06d1

<400> 11420

attaacaaac ataggggacg gctacataat aatctccaat tcccactgat caactccaac 60

cgtcaccacc ttatgcttct cacacatgcg gataaat 97

<210> 11421

<211> 224

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131c07a1

<400> 11421

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cagctatcat gttctagcat gtggacagtc tctctaatacc acaatcgac tctgatcatg 120

atcgggtata ctcatgaact cttttggcgt agacaggtcg cgattaaggg acatagacac 180

cgtgcggggtt atgcgggctaa aagagcctgg atccataaca aatg 224

<210> 11422

<211> 257

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131c07d1

<400> 11422

ggctggggaa aaaaatcaac cccattatga tcccaaagcc accacctgtc attgttaaaa 60

gtttctccct tttaaggatg ccattttggg aaaattttcg gaaccctttt gcagaggggt 120

ctggatatag gagcaaaaaa tttttgtaat ccccaaaatc taatccccat tgcgggttac 180

taccctaata gctccaaag gatttccacc cggaccctga caaatgtccc tggaacttta 240

cgcaaaccct tattggt 257

<210> 11423

<211> 236

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131c08a1

<400> 11423

gtcacatggc gtagaatgca acgagtgcag tgagagatgg caacttctat atcctggaga 60  
 cagctatcat gttcaagcct gtggacagtc actctaatacc agaatcgacac tctgctcctg 120  
 ggctgggtata ctgaagaacg cttttggcgt agaccgctcg cgattaatgg acgcagacac 180  
 cgtgcggggtt agtgcgggctt aaagagcctg gatccagaac aaatgctgtg agtgca 236

<210> 11424

<211> 369

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131c08d1

<400> 11424

aagcattact ttttttagtt tgttcaataa aattgggagg gaaaacataa ttaaatacaa 60  
 ttggacctga taaccagaac cgggtgaaaac cgtactaata gtagacatga atattatata 120  
 ctaatacgtt gaacatgacc acgtaaaaag gcggatccta cttagagagt atactatcac 180  
 agcttggcca tttgtccatt ctgcaatcgc tcggacggca ggccaggccc tgtgttattc 240  
 gacacacttt gctttgggtg aacctcagag agcttgcgag aaactgtgat acttatgcgg 300  
 cctaagcttg aaaccattgc gatccacggg catatcaggc cagtcttcca atctaggaat 360  
 gtgcgacac 369

<210> 11425

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131c09a1

<400> 11425

gagtctttgt ctggtgctgg gtcagaagct tctgcgacac catcttcagg cgggctaact 60  
 cctacagctg ggaaaactaa tgaaactgag atgatgtggc attaccagga tccatcgga 120  
 taagtgcagg taccatttac catcgtgcag ctacgcacat ggagtaacac acgatactta 180  
 gctgctgatt agatgatatg gagaaccact gagacgcatg acgaacctat gctcttaaca 240  
 gatgctcatg acaggggaatg tatgtacgga accatcagtg gtggataatg cacaatcgga 300

gcttgattta cagttacca tcatcatact ctaggaagtc tccacaacac ggtataccag 360  
 gtcaagttgt agaaagactg acattagatc aaaatgctgc atctttgaat tgacatacca 420  
 gtctggggac tccgagacta accaca 446

<210> 11426  
 <211> 549  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131c09d1  
 <400> 11426

aacctcaatt ttttccgtta ttattattaa tctaagaggg gcttcaactt cttcaactac 60  
 ttaacccttg cataagtcaa ctgctagcaa aacacagccc caaaagacaa ttaagatata 120  
 taaacgagat actacgatgc tcaagttcta catacatgac acatgcttat acaacgttta 180  
 gccatgaaat tggaaaatac tgcacagtaa gagatgttta tctgccacta agtaattagc 240  
 cctacaacta agtgtagctg aaagacacaa gaagtcccg tcttgcaacg tccactctca 300  
 taatactggc agactactct ttgtcccca aaaggaggcc tggtaacaacc tactctgcca 360  
 aatgatgact gcctattcca agatctacca ccgtaaccag aatgtatacc ctgtgcacga 420  
 cgatcccaa ggttggggaa cctgtctcca ttatgacttt gcttacgtac ccacatgcct 480  
 ggatatccaa ccggagcaca ccaaccagga ttgccatttc aggtgctagc ccctgaccag 540  
 gccaaccca . 549

<210> 11427  
 <211> 142  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131c10a1  
 <400> 11427

gcttcatggc atgagatgga actacttgta tttttggcct catctgcact cggccttacg 60  
 ctttcagttg atataactat tgaaactgtc attaggtggc atcaggagcc tccattgggt 120  
 ctagctcaga tggcagtttc ca 142

<210> 11428

<211> 196  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131c10d1

<400> 11428

ataaagggat tttttttcgg tggttaacaca tagatctgac ggggggggag atatcaaacc 60  
 tgctaaccct ttcattctctc gaggacctaa aactgcctcc cgcgatagct cactgactaa 120  
 gcatactgaa gaacacacgc tccaccaaatt cacaaggcct aatgcaagcc tacgcaacca 180  
 tcgagcacga gatcgc 196

<210> 11429  
 <211> 181  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131c11a1

<400> 11429

gtgtcatttt ataagcctgc atcaatgggt tcttgggctc catctgcata cggcctgacg 60  
 catacagctg ctataacatg ggtaactcta tctacgtggc ataagagacc tccatgacgt 120  
 gtaggtaagc ttgcggcttc catggaactg cgtcgccaat ggattaatgc actatacgtc 180  
 a 181

<210> 11430  
 <211> 336  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131c11d1

<400> 11430

tttagatttt tttttttctt gagcaatttt tttctgattg gatcatttga actaaaatgg 60  
 cggaaccat tatatcgtct aaaacttccc attaatcaag gatgcactat tatctaccgt 120  
 gatgcctac taacatatat gaagccagcg ccgacacaca aactgcaaca gaaccagaag 180  
 cggctctaaac tacacacgac ctccacttct gctgggacta taagcaggct agaggaaact 240  
 acgcaggcaa cagcccgtat cagaccaacc tgaacaccct ttatgccact ctcaattgca 300

atacagatat tgtctactgt ctctacaatt tcacaa

336

<210> 11431  
<211> 556  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220131c12a1

<400> 11431

cgccatgtct cactacaagt ttgttcttgc aattgagaac acttttactg agagctacgt 60  
gacagagaag ttattctatg ccttagactc tgggtgcagtt cctatctatt ttggtgcacc 120  
aaatgtcatg gattttgtcc ctccacattc aataatagat ggtagaaaat tcaactcatt 180  
ggaagagttg gcttcgcacg tgaaggctgt agctaagat ccagtagcct atgcagaata 240  
ccatgcatgg agaagggtgtg gtgtacttgg taactatgga aaaactcgag ctgtgagcct 300  
tgacacgttg ccatgccgat tatgtgaggc tgtagcaga aaagggtggaa gaaatgcggg 360  
aagctaggtt gagttttttg cttaaattgt agttctgcat gatagagatt gacgcattga 420  
atttaggttt gcaacctgta tagagaatgc ttgtttctct gagctaagtg acatttgacc 480  
aagaaaggct tagctcatgt gatattntat tttttattgc ccccttttcc tggtagacag 540  
tggttgatgc tatctc 556

<210> 11432  
<211> 472  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131c12d1

<400> 11432

gaatgaagag tgatgtttgc atgaattgac atatcaagtt gacatatgca cgtgtttttc 60  
tcaaaaatca tacatcaaca aaaacacttc aactatagtg taacctatgt ggagatagca 120  
tcaaccactt tctaccagaa aaggggggca ataaaaata aaatatcaca tgagctaagc 180  
ctttcttggc caaatgtaca ttagctcaga gaaacaagca atctctatac aggttgcaaa 240  
cctaaattca atgcgtcaat ctctatcatg cagaactaca aatttagcaa aaaactcaac 300  
ctagcttccc gcattttctc caccttttct gctaacagcc tcacataatc ggcatggcaa 360



cgtgtcaagg ctcacagctc gagtttttcc atagttacca agtacaccac accttctcca 420  
 tgcattggtat tctgcatagg ctactggatc attagctaca gccttcacgt gc 472

<210> 11433  
 <211> 447  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220131d01a1

<400> 11433

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 cagttttact attagactgt acaatctctg ttgctcttgc tcaatccaat ccaatccaag 120  
 tcccgcttca gtogaagcaa gaaaaccatg tcttcatcgg tgaagccgcg tcccatggat 180  
 agctacaagg tggaaggcgc gcgcgacatg aggaccgagg tgggtgttcaa cggcgacctg 240  
 cctcctgcgt cgtcgacgcc gacgatgact gtcggcgaga gcagcggcga ggaccgccgg 300  
 gtcgagatca aggccccgag gaagcgcgcc gtgacctggg tacaggacga gacgcgctct 360  
 ctcatggcc ttcggcgaga gatggacgcg ctgttcaaca cctncaagtc caacaggcac 420  
 ctgtgggagc agatctcggc gactatg 447

<210> 11434  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d01d1

<400> 11434

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 ttacagaca tgttaaggcc aatgattgga acggaatttg tgcaaaggga ctagctcctt 120  
 tttctatata aaactatata cagcattatc aaaacttaaa acaaatacaa ttccaggtta 180  
 gtgccgaaca tacatcaaag atctgaacag tccccaccac agttctccag acattctatg 240  
 gtagctgaac attgaccaca ccatgtacct gctttcaact cacaccacga tatatggcac 300  
 caggtcgaag atcatccatg ttgtcaatat gtctgtagggt gtcaaattct cttagacata 360

ttcaaccccg gcgggtcata atatcacgga aatcgtctta agtgtgaaat atcttatctt 420  
 cagtatgcac aggtatatgg tcaggctcat catagagagg taattttaatg gccattcctt 480  
 catcaatgtg aagagtgtaa ttcgctaaag gcaatttacg gtcaatactt ctgattatct 540  
 gatcttta 548

<210> 11435  
 <211> 415  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131d02a1

<400> 11435

gtctctttct gtgtctctat ctatcgtttt ctcaagataa tgggcaaata accatgacgac 60  
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 ataaactatc ttgctgatca cgggtgagtgt gtttggaatt ctccagccga agcttgtggt 180  
 ctcaaacgaa catgaaagag ctgtcgactc cgtttgctaa actacctttg tcctgatggt 240  
 agatgaggat acattacacc ctgagaacag cttttgatca tagaacttca tacatagtgg 300  
 ggctatacgt ggtccaaaat tgcaaaggat cttccatgaa gaactgactg tgtgattaag 360  
 tgcttctgga gacctaggat ccagaagccc atttagcaag ctgagactct acaac 415

<210> 11436  
 <211> 349  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131d02d1

<400> 11436

gaacattacg atccattaag cataagcagc tacacaaaaa taacttgcca caaacaacca 60  
 actaaccagc cgccatccga cctttttttc tcctttacaa tttttttcac tatatatctt 120  
 aaatcataac ccacgagacg ccattcaaaa accataacca agaaaatcct tatcccacat 180  
 aaggcattta acgcacatta tacatgacaa caccaaactt aaacaactca tataaacaga 240  
 cctaattgatg aaattaaccc cgaacacact ctatacgagc ttaagaccat atataatcac 300  
 atatatgatt cataaaaaa tacatatagc tagataaaat taacctcca 349

0953113-032200

<210> 11437  
 <211> 237  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131d03a1

<400> 11437

ggaacattcc gcggtcttca actttgggtt tgatacatgt ccaactccgat acccctgaga 60  
 cagatttgat tttctggcat gtggacattc tctctaatacc agattcgctc tctgctcctt 120  
 atccgtgatg ctcaagaact ttttcgtcgt agacagcacg agattggggg acacatacac 180  
 cccgcgtgtc attcagctaa aagagcctga acccagaaca attgctgtga gtgcact 237

<210> 11438  
 <211> 101  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131d03d1

<400> 11438

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 agtcattaat acgccaatca tatacaagca acttaataaa a 101

<210> 11439  
 <211> 304  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131d04a1

<400> 11439

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 caactatgaa gaactggcct gtgcacagtc tctctaatacc agaatcgctc tctgctcctg 120  
 atctctcatg ctcaagaacg tattcggcgt agaccggtag agactagtgg acacgtacaa 180  
 cgcgctggtt ctgcgggctaa aagagcctga caccataac agatgctgcg attgcacttc 240  
 agctactgag tgcgctcggg ctagcactgc tacagccatc atgcaaaagg agacatctga 300  
 atcg 304

<210> 11440  
 <211> 207  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d04d1

<400> 11440

gttaaataac atatcacagg aggggatcaa taactgcaat tggacctgaa taacacaacc 60  
 cgacaccaac ctggccttgt tacacatgca gcgtaataaa acggcaactt aggtgatagc 120  
 aacaacatgg ggcacaccaa tatacgagaa cgcgcccatc ttacgcgca attttatagc 180  
 aacatgccat gtcactgctg cggaggt 207

<210> 11441  
 <211> 239  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d05a1

<400> 11441

ctaacattcc gcagacctcg acccgggctc tgatacatgt caactcctat atccatgaga 60  
 caaatatgat ttactggcct gtgcacagtc tctctaattgc agaatcgctc tctgctcctg 120  
 agccctcatg ctcaagaacg ttttcggcgt agaccgctag gtattaatgg acacgtacaa 180  
 cccgccgggt catcggttaa aagagcctgc acccataaca gatgctgcga ttgcagctt 239

<210> 11442  
 <211> 68  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d05d1

<400> 11442

ataataaata agggggcggtt tatatcaatg aaaaaacctt tagaggagaa attcaactgg 60  
 acatcact 68

<210> 11443  
 <211> 261  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131d06a1

<400> 11443

ctcacattcc gcagacttcg acccgggctg tgagacatgg caacttctat atcctggaga 60  
cagctatcat gatctggcct gtgcacagtc tctctaatacc agaatcgctc tctgctcctg 120  
atctctcatg cgcaagaacg ttttcggcgt agaccgctcg cgattaaggg acacggacac 180  
cgtgcggggt aagcggctaa aagagcctgg acccagaaca gatgctgcga gtgcaçttca 240  
gctgctgagg tgcgctcggg c 261

<210> 11444

<211> 66

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131d06d1

<400> 11444

agatcaataa gagcaatttg atcttagaaa ctcaaccgga catcaaggga gtcatgggac 60  
acatgt 66

<210> 11445

<211> 248

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131d07a1

<400> 11445

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ctctctcatg ctcatgaccg cattcggcgt agaccggctg ctactaatgg acatagacac 180  
cgtgcggggt atgcggttaa aagagcctgg acccataaca aatgctgcga ttgcacttca 240  
gctgctgg 248

<210> 11446

<211> 96

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131d07d1

<400> 11446

acattgataa caaacatagg gggggggaac atcaataaca ccaattggac ctgatcaact 60

caacccgaca ccaactgggc cataaaacac aagcac 96

<210> 11447

<211> 275

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131d08a1

<400> 11447

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caaatttcaa gctctggcgt gtccacggct ctgtccactc cacaagcgca ctcgggcctg 120

ttccgaatct catacatgct cgtcgtagac cgctactcta ctaaggggct ttgacgatcc 180

actgggtaag cgactaacat agcctggaac cacaacaact gtcagactc gactatagct 240

gctgagtctg cttcagctag cactgttaca cccat 275

<210> 11448

<211> 227

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131d08d1

<400> 11448

ttttatattg ttaaataaaa tagggaacgt gaatataaat atcaccaatt ggatctgac 60

aactgcaccc gttatcaact tggccttaac acacatgcat agtaacaaat ctgcacatta 120

cgatctcgtc acaaccgatg gcccttcca agagtgactc agcctttatt atcaccagaa 180

ttcacagcaa caagccatat cacacctggc gaggtcactg cttcctt 227

<210> 11449

<211> 484

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131d09a1

<400> 11449

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 tcattggtgg atcacactct ctacatgaaa agcagaagcc accagaagat gttagcccat 120  
 atagtgtgaa cggaaaagta ctaggttccg cagttgctct catcctactg gtgggtgtgg 180  
 aaaatggaga ggatggtgta gatgaaagcc caatgggcga ggacaacggg cgtcactgga 240  
 cggcgaattg aaaaccagct tcagggccct gacagcgag cggcaaggct aagacgacca 300  
 gatactgtgg cagcaggttc tgtcatcttg gaacggctca gacccgaacg agtacatcga 360  
 aaccgtggtg agagcctcta tggacagcgt gatcaaagcg tataacatga gcgacaggct 420  
 gtcggttaga cacggcatca gcagcgccgt aatgaagatg gctctggagg atagccaaga 480  
 cttg 484

<210> 11450

<211> 269

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131d09d1

<400> 11450

aaacgtgtca cattcctctg tatcatccat caaacaagac gggactacct attgcaaacc 60  
 cattggagct tcctagctta aaagtttaag actttaccat gcacagccca gactttaatt 120  
 cactgaagcc aaaaggcgtc agtccaaatc ttgagatgct tattggatgg aaacaaattc 180  
 catcatcacc ttgggacgat cctacaagcg agcttactgg agcccagatc acgacattct 240  
 ggcaatacgg tactcgagct aggtcaggc 269

<210> 11451

<211> 479

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131d10a1

<400> 11451

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0953113 "032200

gtcaacacag ggaggcacag aatccatgat gtggaccatc cagcactctg tttctaacct 120  
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 tgagtgaggg taaatgctgc atttcataat gcaaggcctg agaacacctg ctgtacctgg 240  
 ggtgaatgat ctgcccata caaggaacat gattgattgg aggcgatgac tatacgagcg 300  
 gacacactgc cacgaagtct gggtatgtgg aacacattga gaccgccatg atcaaactga 360  
 catctatagg aagtcccaac cggtcgggct gctcagatgg catgaatgta tcagccgcta 420  
 aaccttgccg tctgaggcat tctccacgag ctgtgtaggg gtctagatga tcgacagga 479

<210> 11452  
 <211> 419  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d10d1

<400> 11452

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 gcggttgatt tttgccgatt tctctcggac tcttttgacg ggactgacga tgacagaccc 120  
 taactccata cgcttgcttc acttaactca agagcgtaca attcaggcac tggccttgaa 180  
 gtcggattgt gtgcctagga ctactccgga gtggcgacgg tcttgactga aaacacggcc 240  
 gaagccggcg tttatcttga cgcgagtgtc gctgacgcat gctggctgtc aagtattttg 300  
 ggccaagacg gtgcagttgc cggtcacaaa tgccactgga tatgtcaaaa tgaacatgtt 360  
 tgcgctaaca ttgatcgatg ggcgcaaagt gagctgactc acatgcggga tgaaaactg 419

<210> 11453  
 <211> 478  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d11a1

<400> 11453

cgcccagtct aactgcatgc aaggactcgc gaccgagctc actcagactg tgcgctgcct 60  
 gacacagctg ccatactatg ccgtacacta tggagcaaca actctgtctt ccggggcccc 120  
 gaaggtcatg ggggtgggtac cttcacatac agcaacgcgt ggatgaatgt acaactcgtc 180



ggaaggggaag gctaggaacg ggacagtttg agatagagac ccagtgcgc tggcgcaata 240  
 ccatgcttgg ataaggtggg tggagcatgt gcactatgga gaaacatgcg cagagagcct 300  
 ggactcgttc acatgccgat gctgcgagag ctggaagcac taataggggc tgatatgcag 360  
 gtcgcttggt tgcgtagaga gctgaagcag tacttgtgga tgatcaatgt tgccgcgacg 420  
 aatttacgtt agatgactgc atagacattg atagctgcat tgacctcatg ggcatatg 478

<210> 11454  
 <211> 269  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d11d1

<400> 11454

tttagttttt tttttttttc agtgatatat gaacagagac ttttgcattg agagagctct 60  
 taagttgaca tgtgcacgtg tctctatcac ctatcttacc tcaatgacaa tacttcaact 120  
 gtaatgtaac cgattgggtg aattaagaca ccaccttaca acataagaga aggcctagaa 180  
 ggagcaatgc gtgacatgga ctaagccgga cttggtgaca tgttcaactga atcattgcat 240  
 caagcaggtg atgttctgga tgcattgccc 269

<210> 11455  
 <211> 477  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131d12a1

<400> 11455

cgccatgtct cactgcatgc ttggactcgc gaccgagatc actctgactg tgcgctacct 60  
 gacacagatg ctatactatg ccttacacta tggagcagca actatgtatt ccggggcccc 120  
 gaatgtcatg ggggtgggtac cttcacatac agtaacgggt ggatgaatgt acaactcgtc 180  
 ggaagagtag gcttgaacg tgacgggtgc agatagtgat ccagtgcgc tggcgagta 240  
 ccatgcttgg agaaggtgtg gggagcttgt gcactatgga gagacatgcg ctgtgagcct 300  
 ggactcgttg acatgccgat gctgcgaggg tcgaagcaca taatggggct gatatgcggg 360  
 tcgcttggtt gagtagagag ctgaagccgt acttgtgcat gatgaatgtt gacgcagcga 420

002220" E T T E S S O

atttacgtta gctgactgca tagacattgc tagctgcatt gagctcatgg gcatatg 477

<210> 11456  
<211> 303  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131d12d1

<400> 11456

gtatgaagag ggatgttcgc atgaattgcc atatcaagtt gacatatgca cgtgtcttga 60  
tcaaaaatca ttcctcaacc aaatctctga aagtatagtg taacctacgt ggagatcgca 120  
caccacctt tctcccagaa aaggggggct aaaaaaatca ctatatcact tgagctaagc 180  
ctttcttggc cagatggaca ttagctcaga caaacaagca ggtgtctata caggtggcta 240  
acctaaatgc attgcgacca tctctatcat gcatatcttc aaacctaagg caagacggaa 300  
cgt 303

<210> 11457  
<211> 492  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131e01a1

<400> 11457

tgaagaaact acaattctca ctgaaagaaa gttgctaact cttggcacca gttatcagct 60  
taacatagtt gataacacca aaggcacaac aacattgagg gaatgaggct tgtcatatca 120  
gctgtatgtg ttattgtgct attttcttat gctgctgcgt atgatccttt ggatccaaat 180  
ggaaacataa cgatcaaag ggatggtgtg tcatggacac cagatggcta ttagccgtg 240  
gtaacaatga gcaatttcca aatgtttcgg cacatcatga atcctggatg gaccttggga 300  
tggaactggg caaagaagga agttatatgg tccatggtag gagctcaaac cactgaacaa 360  
ggagactggt ctaagttcaa aggcaatgta cctcactgct gcaagaaaac tcccatagtt 420  
gtagacttgc tccctgggtg gccttacaac cagcaattct caaactgttg caagggtgga 480  
gtggtggcaa ca 492

<210> 11458

<211> 465  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131e01d1

<400> 11458

gagtattatg atccggttta ttttgaatct actggaataa tacatcaaat tacagctccc 60  
 tatacaccac aacacacaca tataacttca gatttatcca gtatcatctc gattttcaaa 120  
 ttaaccaaca ctattcagca tctgataagc acttgtgaat cacaacacac acattcatga 180  
 gtcgggcttg gtttttttca agcaattccg taagattctt catacctgat gtacgttggtg 240  
 gtgtgtgtag gaaaacttgg cttcaaaatt tcacagaaaa taattggatc tcgcctacat 300  
 actatttcac caaacagtta tcatgacaag cattgtcaaa acgaatgctg ggaagtttaa 360  
 taggttcaca ggggcagaat tagggaggat tgggtagcta tcaggtggtg gaagcatgca 420  
 ttcttcacca ttaaagtaga ccttgcgagg aaatgcccac ccttg 465

<210> 11459  
 <211> 524  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131e02a1

<400> 11459

ctcgctcgcc aaacgcccct ctctctctc caatggccga ccagctcacc gacgaccaga 60  
 tcgccgagtt caaggaggcc ttcagcctct tcgacaagga cggcgatggt tgtattacta 120  
 ctaaggaact tgggactgtg atgcggtcac tatggcaaaa cccatctgag gcagaactgc 180  
 aggatatgat taatgagggt gatgctgat gcaatggaac catcgacttc ccagagttcc 240  
 tcaacctgat ggctcgcaag atgaaagaca ccgactccga ggaggagctt aaggaggctt 300  
 tccgtgtggt cgacaaggat cagaatggtt tcatctctgc agctgagctc cgccatgtca 360  
 tgacaaatct tggggagaag ctgaccgatg aggaggttga tgagatgac cgcgaggccg 420  
 acgtcgatgg tgatggacag atcaactatg aggagttcgt caaagtcatg atggccaagt 480  
 gaggaccatt catccataac ctaaatttga aagcatataa gaga 524

<210> 11460

<211> 533  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e02d1

<400> 11460

aaaatattaa cagcattagc caaccacatg taaaaaacac aaatgcatcc aattgttcta 60  
ggttcataat aataacaaaa aaataaatat gaaaatggag agtaacaaag catggtgaga 120  
cacagctaac cgaagctact aaaaacaagg aacaaagcaa acaagtagga taactagggg 180  
gcagaagtag taccagttaa agcaaacaag aaaaacagac actcaactaa caaaagctaa 240  
taaccccaaa tcaagatgga cctaattgaa atagaattct catcaaaact tatctgcact 300  
gtccctcttc tctttatatg cttttcaaat ttaggttatg gttgaatggg cctcacttgg 360  
ccatcatgac tttgacgaac tcctcatagt tgatctgtcc atcaccatcg acgtcggcct 420  
cgcgatcat ctcataacc tcctcatcgg tcagcttctc cccaagattt gtcatgacat 480  
ggcggagctc agctgcagag atgaaacat tctgatcctt gtcgaacaca cgg 533

<210> 11461  
<211> 232  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e03a1

<400> 11461

ggaacattcc gcggtcctcg acctggctc tgatacatgt cgactccaat ttccttgaga 60  
caaagtgat ttactggcct gtgcacattc tctataatgc agaaccgctc cctactcctt 120  
atcccggata ctcaatgaca ttttcgtcct agacaggtag ggattggggc acacgtacaa 180  
ccctcttggc cgtgggctga aatagcctga acccacaaca attgctgcga gt 232

<210> 11462  
<211> 330  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e03d1

<400> 11462

aaaaaactgt actcagggtg ggatcaataa gaataatact atgtaagtaa ttcaacacgt 60  
aattaagctg gacttattac acatgtagta aaaaaaaagg gcaacttagg agatactaaa 120  
tatatggggg gcatagtata cgggacagta cacatctttg ggggaacata ttatatgaac 180  
atgctatgtc actgggtgca agagttaaca gatagttgca cccatagaat agaattagcc 240  
cttaggagac tttggtgaca caatagccag gtcttaaadc cggattgttc tagttcaaga 300  
cctagactag aacacttaat gcccattgat 330

<210> 11463  
<211> 237  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e04a1

<400> 11463

ctcacaatcc tcagacctcg accctggctc tgatacatgt caacttctat atccatgaga 60  
caaatatgat ttactggcct gtgcacagtc tctctaagtc agaatcgcta tctgctcctg 120  
atctctcata ctcaacaacg ttttcggcgt agaccgctag gtattagtc acacgtacaa 180  
cccgttgctc catcggttaa aatagcctta acccacaaca gatgctgcca ttgcact 237

<210> 11464  
<211> 254  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e04d1

<400> 11464

agctagctaa ccggcggcgg cccttttttt tttttttttt ttattatatt ttttttttat 60  
tttgtaaca aacttttctc aggtggggat caataatagc acatggacct tagtaacaca 120  
accgctcatc atgcttgtct tgcaagacat ggggtttaat aaatagggtta acttatgaga 180  
tagggaatac atgggggtca cagcatcacg gaaggcacac cgctcttggg cttatgttag 240  
atcaacatgg tatg 254

<210> 11465  
<211> 232  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131e05a1

<400> 11465

ctcacattcc gcagacttcg acccggtctc tgatacatgt caacttctat atccttgaga 60  
cagctatcat ttactggcat gtgcacattc tctctaatec agaaccgctc tctgctcctg 120  
atctctcatg ctcaacaacg ttttcggcgt agaccgctag ggattaaggg acatatacaa 180  
cgtgcgtggt catcggtctaa aagagcctga taccataac aaattgctcg at 232

<210> 11466

<211> 306

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131e05d1

<400> 11466

attaaaaaac gttggggaca gaaacagtaa tgccaccaat aggccttgag aaattcattc 60  
ctataacaca atggtactaa atcagagtta cttgataaac tcgattaatg ctgatattga 120  
acctataaac ggccagaatc attctaattg ggcattctgag gtttatcaaa ctttcaacca 180  
tgatgatagg acaggggtcc aatcgcatc ttttccttcc ttgaaccata aagctattcc 240  
acgcttgcaa ttctcagggc tgtcactgcc ttgaacaaca ttccttctg tttgaacaac 300  
ctggtc 306

<210> 11467

<211> 280

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131e06a1

<400> 11467

ctaacattcc tcagacttca acccggtctc tgagacatgt caacttctat atcctggaca 60  
caactatcat gttctggcct gtgcacagtc tctctaatec agaatcgctc tctgctcctg 120  
atctatcatg ctcaagaacg tattcggcgt agaccgctcg ctactaatgg acacagacac 180  
cctgcctggt aatcggtctaa aagagcctgt acccataaca aatgctgcga ttgcacttct 240

gctactgggt gcgcttgatc tcgaactgtt acagccatca

280

<210> 11468  
<211> 124  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e06d1

<400> 11468

aaataacatt ggggaggtaa acattattgt caggaattgg atctgagaaa ctcaatccga 60

catcatcatg gtcctaaaac acatgtattg caataactct gtaaattcgg tgattggatc 120

tatt 124

<210> 11469  
<211> 281  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e07a1

<400> 11469

cgaacattcc gcagacttcg acgcgttctc tgagacatgg caacctctat atcctggaga 60

caactatcat gttctggcct gtggacagtc tctctaattgc agaatcgctc tctgctcctg 120

atctctcatg ctgatgacct ccttcggcgt agaccgctcg ctactaatgg acacggacac 180

cgtgcgggggt atgcggctaa aagagcctgg acccataaca aatgctctga gtgcacttct 240

gctactgggt gcgctcgcgc tacgactgtt acaggcatca t 281

<210> 11470  
<211> 100  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131e07d1

<400> 11470

gttaaataac attggggggg aaaacatcat tatctccaaa tggaccttat taacaccacc 60

cgacatcaac tgggcaatga tacacatgca aagaatcaac 100

<210> 11471

<211> 225  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131e08a1

<400> 11471

ggaacatgtc tcagactgcg tcgagctcag cgagagatgg caacctttat atcgtggaga 60  
 catctttgat gttctggcct gtggacggtc actctagtga acaatcgctc tctgagcatg 120  
 cgcggtagtg ctcatgacgt ccttcggcgt agaccggtcg ctactaatga acagttacac 180  
 cgtgcggggtt atgcgggctaa catagcctgg acacataaca aatgc 225

<210> 11472  
 <211> 85  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131e08d1

<400> 11472

gttaaataaa ataggggggg taaatatcat tataaccaat tggaccttat caactccacc 60  
 cgттаатаас tgggccataa cacac 85

<210> 11473  
 <211> 248  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131e09a1

<400> 11473

gtaacatttc tcagacggag tcgagttcta cgagaaatat catgctatat atcgtataga 60  
 catattatat gttatagctt gtggacagta aactactga acaatcactc tcgatacctg 120  
 atcgcgacta ctcatgacat tcgttgatcat atacagatcg ctacttaggg aacttaaaa 180  
 cacactgggtt atacggctat acatatcctg catacacaac atatgctgtg actcgaatac 240  
 agctgatg 248

<210> 11474  
 <211> 92  
 <212> DNA



<213> Glycine max

<223> Clone ID: jC-gmfl02220131e09d1

<400> 11474

gcaaaaggcc tttttttgca tttccgcaac aaaatattaa cgggggggtgt tctctctttc 60

caaagctaac atatgaaatc ctccagtggga ta 92

<210> 11475

<211> 479

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131e10a1

<400> 11475

ggctcattct aactgcatgc ttggaatctc gatcgagcac actcagactg tgcgctgcct 60

aacacaactg atataccatg cggaacacta tgtaccagca agaattgtatt gcttggcctc 120

gtatgtaatg cgggtggatac catcgcatatc tgcaacaaat agattaatga actactggcc 180

ggaagggact gcttgggaaca tgtcagtttc agatagaaac acagtgatgc ttgcataata 240

gcagtcttaa ataaggtgta tggatcatgt gcatcttggga gtaacacgct cagagagcct 300

acactcggtc acatgccgat gctacgaaac tgaatgcact aatagggcct aatatgaagc 360

tcgcttattt gcatagagag ctgaagcagt actgctagat gatcattatt gccgcgacta 420

tattaggtta catgactgca aatacattga ttgctgcttt gacttcatgg gcatatgac 479

<210> 11476

<211> 377

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131e10d1

<400> 11476

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ccggttgaga cttaacgagc acagagaact gggacatctt cttaaccctt cgcggcgatt 120

ccttcgtgtg gtacgccgaa tggcccatc tcagggaacc actcctctgg gtgctcaaaa 180

ccatccctat ccctcttccg ctatagctcc tcgtaccggg ctgaggcaac tcccgcctct 240

ccgagcacct ctacgacggc ggccacaccg acatcaccaa catcgacttc tccatgggtcg 300  
 tcatcagaaa catgcttcgg cggaacgtac gctaccgacc ccttatgcga tggggcggtat 360  
 ggacatgacc gtcatgc 377

<210> 11477  
 <211> 428  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131e11a1

<400> 11477

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 ctcttgtgca tgttgcgata ttcatcatta tatctcagtt tgtctcatta aaaatggaaa 120  
 taatatgcta agttgctaac tgctttatgt catctcagtg tatgttagtt tagtccaact 180  
 gtgcaagttt tcatttcgac cagtgggttcg agttagattt tgattcttca tgctatcttt 240  
 gtagtgggat gagtgcagaa gtactcttgt gaaggttgga aaaacgagat ctcaattcga 300  
 tgtatggtat gccaagatgg tatectactg ttgattatag attttatttg aatttgatat 360  
 tgatgttcaa tgattttcaa ctagagcaga gcacacagag gatggtgaaa ctgctttgaa 420  
 tttaaggt 428

<210> 11478  
 <211> 282  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131e11d1

<400> 11478

gggccatctt gctgtaactt caaaaggcgg tagaaactca actatcttag tcttcacct 60  
 ccaacactgg gctctctgac tagatttgtg accagatctc cggtactgtg cccaaatcat 120  
 gctccacact atatccttgc tcaaaaggct gccgaccata ctgtcccaaa aggatcatgt 180  
 ggatggtgac agctattgct actatccatg ccactattgt ctatgcgaaa aaccaccatg 240  
 accaatgccg cctcctccta tgtggccctc atgaagttgg gc 282

<210> 11479

<211> 579  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131e12a1

<400> 11479

atgagagttt caatccctct gactcatttt tctccgtgac tgcaaagtgt gttaccctcc 60  
 tctccaattt cagcgccaca gccacttggt aggcctctc acaggcctac attgatagag 120  
 agtactccct tgcgccattg aattcagaag ccttgactct cactttcaag cttctgata 180  
 aatacaatgg cactttcgct tttgtcaacg gcattcagct catcccgatg cccgagctgt 240  
 ttgattccgg agaatcggtg ggggtatgctg accaaaccac ggatgtgaag agcttgaatc 300  
 tgcaaaccat gtttaggctt aacgttggtg gacagtacat ttctccaatc caagactctg 360  
 gccttacaag gatgtggtat gatgacaggc cttaccttta tgggtggaagc actggtgtca 420  
 ccaaccaagc cgagaagaac gtcttaatcg actaccagac catgccaaag tacattgctc 480  
 cttctgatgt ctactccaca tcaagatcaa tggcgctga catggatgtc aacttgggct 540  
 taatctcact tgggtcttcc aagtcgatcc caattccat 579

<210> 11480  
 <211> 191  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131e12d1

<400> 11480

actcggtctg agcacatttc ttccccctcc atcttttttt catatgtctc tattcctatt 60  
 tatgaggagg agttacatta ccttggtgtc ccaactactc cgactccttt accataccac 120  
 taaactattg atccttgctc accaaatttc attggtgacc gacgaggata tggacaaagc 180  
 tctgcgttcc c 191

<210> 11481  
 <211> 464  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131f01a1

<400> 11481

aatcacttca tccttgggca ataaaaagct gattggatca tttgatctaa aaaagcttca 60  
 accatcatat tgtaattac ttccaattaa tatgggctgt gctatcatta accttctcct 120  
 aataattttt atatatgaag ccagcgccga cacacaaact gcaacagaac cagaagtggg 180  
 cagaacttca caagacttcc actactgctg tgattataag caggctagag gaaactacgc 240  
 agccaacagc ccctatcaga ccaacctcaa cacccttttg tccactctca cttccaatac 300  
 agatattgac tacggtttct acaatttcac aaccggcgaa taccgacaca tagtgtaggc 360  
 cattgggctg tgcagaggag atattaatcc agatgaatgc cgtatctgcc tcaaactttc 420  
 agagccaatc tcacagagct ctgtccagtt cagaaggatg caat 464

<210> 11482

<211> 498

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131f01d1

<400> 11482

attgaaataa tagtaagagt acttactagc actcccctaa aacataacac aaggacaaac 60  
 agtttgcacc aaactacgaa tgaatagatt tataagttac aactcagtat atgccatctt 120  
 aaaattaatt gaaattcata aatattagct gtattagagg aattcagtga tgtgatactt 180  
 ttcagcagcc tcattggcct tcttcccccg atgttgatct agttgtatac tcgattgttg 240  
 ccccggaatt aaactctggg aattgtgcac tatcatcata atatgcagggt tctaaaggta 300  
 ctgggagagt ttgagaatgg ctattaaaca cggttacaac gaaagccatg gtgggtctgg 360  
 cagctacatt ttcttgaaca cagagtaacc caatgtggat gcatctcact atttcattct 420  
 gtgaaccatt gatcaagggtg gcatctacaa tatttgcagc tggttccttc ctcagtttc 480  
 gccatgcaat acttagta 498

<210> 11483

<211> 350

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220131f02a1

<400> 11483

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tgccggcggtt ggagcccaag cccaaagccc atccaccttt cctgcgcctc ccacacccca 180

agcatctcca cctcccgctc agtcttctcc gccacctgtt cctctctcac ctccaccctc 240

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<210> 11484

<211> 469

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131f02d1

<400> 11484

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ataaactccc acgatcacat ccacaaaata atatataaag gtaagggtata gggtaaataag 180

caaaataaca tgaattggca gaaaaatctg cgagtccgaa gacagagatc gatgtctaga 240

acaacatgga cagcaaagca catccgaata ctaagctccc aatcatcttc tgaaaggacc 300

acaagttttg agccccactg tcatcgccgg agggagagat ggtggagagg ctgggaccgg 360

gagcaaggga aggagagagt gcaggagcaa acaccttgga aggagacgga gctggagaag 420

agacaggtgg agaagaagag gtgtaactgt tgggggtcaat gaggggtggt 469

<210> 11485

<211> 157

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131f03a1

<400> 11485

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atcccgtata ctcaacaaaa ttttcgtcgt agacagc

157

<210> 11486  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131f03d1  
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 aatcatgcaa gtattgttag acaagaatta tattaattgg gtagattcgg atgtatagaa 120  
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<210> 11487  
 <211> 206  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131f04a1  
 <400> 11487

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 atccctcatg ctcaagaccg ttttcgtcgt agaccgctcg atactgatgc acacggacaa 180  
 ccctcttgga cctcggctga aatagc 206

<210> 11488  
 <211> 198  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131f04d1  
 <400> 11488

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 actaaatata tggtgccac agcatttgtg aacgcaccct actcttgggg aacatttaga 180  
 tcaacatgcc atctcact 198

<210> 11489  
 <211> 232  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131f05a1

<400> 11489

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 atccctcgtg ctcaagaccg ttttcgtcgt agaccgctag gtactgatgc acatgggtcaa 180  
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<210> 11490  
 <211> 272  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131f05d1

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 cgcaaaactta ttaaacattt aacaaagtta gtacttcatt ttccataact ttagaactta 180  
 tcctagtttc tttccactca atatcatcta tcaataactta gtgtactcta ttaaaacata 240  
 tccatttcca tacaccggtt tgaccattct ta 272

<210> 11491  
 <211> 220  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131f06a1

<400> 11491

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ccccgcctgg tatgcggctt aaagagcctt caccataac

220

<210> 11492  
<211> 196  
<212> DNA  
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<223> Clone ID: jC-gmf102220131f06d1

<400> 11492

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caaaacgtag ctcacattct ttaggcggat actcacgaat ctccaaccaa ggtcagtact 180

tcattttcca aaactc 196

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<211> 262  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131f07a1

<400> 11493

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ctccctaata ctcatgacct ctttcggcgt agaccgctcg ctactaatgg acatctacac 180

cctgcgggggt atgcggctta aagagcctgc acccataaca aatgctgcga ttgcacttca 240

gctgctgagt ccgctcgcgc tc 262

<210> 11494  
<211> 197  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131f07d1

<400> 11494

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attctatctc acatctg 197

<210> 11495  
<211> 296  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131f08a1

<400> 11495

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agctgggtata ctgatgacat cattcggcgt agaccggtcg ctactaatgg acatcgacac 180  
cgtgcggggt atgcggctaa catagcctgg acccataaca aatgctgtga ttgcacttta 240  
gctgctgagt ccgcttgtgc tcggaatggt aaaggcatca ctgcaaagat gacatc 296

<210> 11496  
<211> 405  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220131f08d1

<400> 11496

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aacctggggc acccatcta acgagacca caagttatca acgcctgact tcacagcaac 180  
aatccatctc acagctgagg tggctctcgc agccttcgca acctgaacta gacatatgtc 240  
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agaccactac gtttaacgcc catgcaagga gcttgaatga cccctgggtg agcacaagc 360  
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<223> Clone ID: jC-gmf102220131f09a1

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agctcgacta ctgatgacat cctttggcgt agaccgctcg ctactaagga acagcgacac 180  
ggcgctggct atgaggctaa catagcctgg atccatatca aatgctgtga ttcgacttta 240  
gctgctg 247

<210> 11498

<211> 300

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131f09d1

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ccacagatgc tggcgttag gacaaaaaca acttcctcag ctatggggga atcgacgat 180  
ggcctctggat atgacacaaa gcactgactt ttctcacatc tgggggagcc actgggtgatt 240  
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<210> 11499

<211> 211

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131f10a1

<400> 11499

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atatgtactg aggaggatac catcgcatgc agtcacaaat agattaatga actactgatc 180  
ggaacagact gcttgaaca cgtgagttgc a 211

<210> 11500  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131f10d1

<400> 11500

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 ttgcgacaaa acaagggggg ctgtaggaag gagatctgac aatgagcctg agctttactg 180  
 gaactgcat aaatgctgac aactcacaag gccttcttgc tataggcagt taatcatacg 240  
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<210> 11501  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131f11a1

<400> 11501

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 gtctatacat cgcaggttac cagtacatga cgtctgacag cgagtaatgt ttcgacgaac 180  
 cgcaactggc tgccctgccgt acagga 206

<210> 11502  
 <211> 380  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131f11d1

<400> 11502

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 gtgctaaacg attgcgtac tgccgtaaga tgcctcggag tcttaaggat acaaacttgt 240

tgggacttaa gctcttgatg tagaaatccc tggattaaca gtccatgcca acttaggggc 300  
cccgaaggt aaaatccaat aattcattcc aacgtcttaa taacccttgt caggcgacca 360  
aagattacaa aggcggggac 380

<210> 11503  
<211> 459  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220131f12a1  
<400> 11503

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cccgatgcag aacagcgtta tgggtagacc acgacctact gcagctgagg acagcatcac 180  
tcaacaggat gcctgcacgc actgatgatg cccactccat tcgggggtgtg cgtaccatgc 240  
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gcacagcctt caatgatgaa cgcgtcgaca ccgtcgatca caccaggctt gtgatccatg 360  
ccccactcga tgtccaggcc gatccacagc atatcaccca aatcgtatag gagactgtcg 420  
acggggccga cctgtgcgac tacatctatg ctgctgagt 459

<210> 11504  
<211> 252  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220131f12d1  
<400> 11504

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aacacgactt ataagaggaa aagacggtct cataacctag caacttgta tgccctccgc 180  
cagaagcata gaatatctaa ctggctctgt cacctagggg aaaggctttt tacaacgta 240  
tcctggggaa gg 252

<210> 11505  
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<223> Clone ID: jC-gmf102220131g01a1

<400> 11505

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cattggatca gcggattagg gatcatttgt tgtccaagaa taacttgttt actgaggggtg 180
ggaactttgt gagctcgttt cagcgctcctg tgttgtgtat ttttgaccgg aatttcgagt 240
tgccggtggc gattcagcat gattttcgtt accggccgct tgttcatgat gtgcttgggt 300
tgaggctgaa taggctgagt gtgcaggggg agaaggggtg gatgaggtct tatgagttgg 360
acagtgctga ttcgttttgg gttgcaaagt ggtcgctgga gtttcggag gttgcggtgg 420
agattgagac gcagttgaat aagtataaga aggatgtgga tgaggtgaac aagaggactg 480
gcgggactca tggcgcgag tttgatggga cggatttgat tgggacacga agcatttgat 540
gaatgctgtg aattctctgc ctgagttgac tgagaagga 579
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 <211> 552  
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<223> Clone ID: jC-gmf102220131g01d1

<400> 11506

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tacaatgaag ataaagcata gaccactgtg ctaccagaaa ctaccaagaa gcaacccct 180
aactttataa tcaagaaggc agtgaagggt tatattcctt cattgttttt ttctagacga 240
tgaacatcaa acacagatgt gactttgcct gtgttatctc gatgtcagag agattttctt 300
tgcacactaa agaataatgt ggcaaactga aatgtgaatt acattcacct ctgaactact 360
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gctgctctac aaagtcaact ccagtttagc tttctgttgc tccatatata atatgtttgg 480
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caggttgctg atgtttgtgca agctcttgca gactgcaata ttcaacgtaa ttaccaccac 540  
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 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 cttccagggt gggcgggcaa gtcctgccca accncaacac ccatcattgt gtagtgggaag 180  
 agccgctgga gtcacagga ttcgggtgtg gatagctgag ccatctggtg aacctgctcc 240  
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 tgcacgtaag atggagaaat tttcagatcc accagcagga aaagctagag agaataaggc 360  
 ttggtgggat tggggttatg actatgagag tttcgtggat gtgtcaagga gggtaatgca 420  
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<210> 11508  
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 <213> Glycine max

<223> Clone ID: jC-gmfl02220131g02d1

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 ctggtattaa tattattaca catgaaaaat gaaattttct gaagctagag cggaagagc 180  
 acctcgggtc gaattagaag cttactagac atgtatatag atttggatac cctttgtacc 240  
 caccacatat taaatatata tacttatctt tgctgattta aaaaaaaaaa aagcttacta 300  
 aacactaatt ctgcaatgga aaattaaatc cgaaaggaat gccttctcat gcctgtagtt 360

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<210> 11509  
 <211> 557  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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 cccaaataac atcaaggcct atagcataag tgatggaatc ccagaggggc acgtcctagg 300  
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 aggtatagaa ttagcggaag cagagacaaa gaagagagtc acatgcatca ttgcagatgc 420  
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<210> 11510  
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 <212> DNA  
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<223> Clone ID: jC-gmf102220131g03d1

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 aactacaaac acaactaacc cgagaatcta ttcaagttat acatcatttt aatagttttg 180  
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gagtgttgaa atcttgtgtt gcttgccctt caggcctacc tgcattcttc acagtcttct 300  
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 agctctttac caatccattt ttggcgaaca tcttaccttc tatcatcatc ccaatcttcc 420  
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<210> 11511  
 <211> 292  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131g04a1

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 agccctcatg ctcaacggcg ttttcggcgt agaccgctcc ggattgggtgc acgcgtacaa 180  
 cccgctggtc cctggggtga actagcctta acccgcaaca gttgctgcca ttgcgcttga 240  
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<210> 11512  
 <211> 181  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131g04d1

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 aaaacatggc gagcatagca tatggggagg caccctctt ttgggggtact attagtagaa 180  
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<210> 11513  
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 <212> DNA  
 <213> Glycine max



<223> Clone ID: jC-gmfl02220131g05a1

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caaatttgca acagtggcaa caagttggag agaaggctat cgcttgggga gcatcaccga 360  
gcagagtcac ggcctaagta ttgggtgtca ccagtggctg agatctaggg tgaatgagaa 420  
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<210> 11514

<211> 267

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220131g05d1

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ctatatagca ccactttgca ggtacccaaa gcatagcgcg cattcaattc ggggatacac 180  
cccaaaattc agcaactatt agaacaacac ggaccacaag tcttcaaata atctagggtc 240  
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<210> 11515

<211> 599

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220131g06a1

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 ttacagctgt gtgccgtgcc ctgatttttag aaaaggggct tgcaggcgtg gagacatgtg 240  
 tgaatatgct catgggggtgt ttgagtgtctg gctgcacccg gctcagtatc ggacacgcct 300  
 ctgcaaagat ggcaccagtt gcaatcgaag ggtgtgtttt tttgttcaca ctgcagagga 360  
 gcttcgtccg ctgtatgtgt ccaactggatc tgctgcccct tcgcccgtt catctgcttc 420  
 aggtcctaata gtcattggaca tggctgtctgc catgagcctt tntcaggatc gccttcatcg 480  
 ggctcttcca tgcgcgcgtc ccaactttggg cagccaatgt ccccatctgc aaatggcatg 540  
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<210> 11516  
 <211> 411  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131g06d1  
 <400> 11516

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 acaacttcaa ccattggcaa cagtaaaaca ttgacttggg ttaacttagg gaacttcaaa 120  
 aaaatctttt aaaacaaacg caggctaata aggggttttg gtccatttta aaccaaacta 180  
 gcttgcttga tagggaaactc aaaaatcaag tgaaatatcc aggggaaaaa ttctgaaacg 240  
 gggccgtttt ggaagaaaaa ttgataacct cgacaggatt tttctcctac tattggattt 300  
 caacccaag agagagagct ttttcaactc ttttgaaact ttggagaaaa ataatggatg 360  
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<210> 11517  
 <211> 598  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220131g07a1  
 <400> 11517

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atcttgaact atctcctccg tgttctcact ttctcaacta cacaatattc ttattgaatt 120  
ccagcggaaa gaatcatgag ttgcttcggc tgttgtgagg aagatgacta ccagaagact 180  
gctgaaagtg gaggacagca tgtggtaaaa aactcaacag gaaatgatgg aaacagtcgt 240  
gcatccgaaa ctgcaaagca ggggactcaa gctgttaaaa ttcagcccat tgaagttcct 300  
gaattacaag tggatgaact caaagaaatc accgatggct ttggagaaaag ttctttgatt 360  
ggagagggat cctatggaag agtatattat ggcgttctta aaagtgggca ggctgcggca 420  
atcaagaaat tagatgccag tcaacagcct gatgacgaat ttttagccca ggtttcaatg 480  
gtttcacggc tgaagcatga ncattatggt caattgcttg gctattgcat tgatggatac 540  
tcccagagttc tggcttatga gtttgcattc catgggtctc ttcattgatat tttacatg 598

<210> 11518  
<211> 495  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131g07d1

<400> 11518

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agtcactttc ttatatctca cgtgcacact tatgcacata ctcatgata cagatataaa 120  
tatagacaaa gattagtttg gagtttcacc agcaggccca tgtcttgcatt tcaataaagg 180  
ttgaagagct ttgactacaa tgctcatggt tggctctgaaa tcagcttcat attgcacgca 240  
cagggcagca acagcggcca tcttagcaac agctttgggt gggattctc ctccatgctc 300  
tgcatctaca cactgtctga ctttatctc actgagtctt ggtgtagccc aagtaaccag 360  
gctctgctgc ccacgtggta gtgtatgatc aacaggcttc cttccagtca aaagttccag 420  
aaggacaaca ccaaagctgt atacatcact cttggcattc aattggccag tcattgcata 480  
ttctgggtgca tgata 495

<210> 11519  
<211> 454  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131g08a1

<400> 11519

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 ccatcggaag gaatcatgag ttgcttccgc tgtcgagagg aagatgacta ccagaggact 180  
 gctgcaagcg gaggacagca tgtggtaaaa aactaaacag gatatgatgg aaacagtctg 240  
 gcatccgaaa ctgcaaagca ggggactcaa gctgttaaaa gttcagccca ttgaagttcc 300  
 tgaattacaa gtggatgaac tctgagaaat caccgatggc tctggagaat gtactatgat 360  
 aggagaagga tcctatggaa gagtatagta tggcgctctt aacagtggac aggcagcggc 420  
 attcacgaaa ctagatgcca gtaaacagcc tgat 454

<210> 11520  
 <211> 475  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131g08d1

<400> 11520

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 agtcactttc ttatatgtta cgtgcacact tatgcacata ctcatgata cagatataaa 120  
 tatagacaaa gatcaatatg gagtttgacc agcaggccca tgtcttgcatt tcaataaagg 180  
 ttgaagagct cagactacaa tgctcatgtt tgggtctgaaa tcagcttcat attgcacgca 240  
 cagggcaaca acagcggcca tcttatcaac agctttgggt ggatattctc ctgctagtct 300  
 tgcattctacg cactgtctga ctctatcctc actgagtctt ggagtagccc aagtaaccaa 360  
 gctgtgctgc ccacgtggaa atgtatgatc aacaggcttc cttacaggca aaagctccag 420  
 aaggacaaca ccaaagctgt atacatcact cttggcattc aattggccag tcatt 475

<210> 11521  
 <211> 440  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131g09a1

<400> 11521

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 ccatcggaag gagtcatgag ttgctgccgc tgctcgagagg aagatgacta ccagaggact 180  
 gctgcaagcg gaggacagca tgtggtgaaa aactaaacag gatatgatgg aaacagtcgt 240  
 gcatccgaaa ctgcaaagcc ggggactcaa gctggataaa gtccatccca ttgaagttcc 300  
 tgaattacag gtggatgaac tctgagaaat caccgatggc tctggataaa gtactatgat 360  
 aggagagggg tcctatggac tagtatatta tggcgatctt aactgtggac aggctgcggc 420  
 aatcacgaaa ttagatgcca 440

<210> 11522  
 <211> 305  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131g09d1  
 <400> 11522

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 aggggattat gaagccctca cttacttgaa tggcccggtgc actctatatg acatactcat 120  
 cgaaactgtc attgttatag accaagaaca ttttggacct ttaccattag gaccctcaat 180  
 tgcattcgac ctaggtcttt taggccagaa ggctatgctg cgcttcggct ttatatgacc 240  
 gttccgggct cccctccaga cgtctagagt gagagagaga ccaccacttt cctggggaga 300  
 gaacc 305

<210> 11523  
 <211> 305  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131g10a1  
 <400> 11523

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 atcctgaact atcaactccg tggcgctcact tcttcaagta cacaatactc tcacgcctt 120  
 ccatcggaag gagtcatgag ttgatccgc tgctgtgagg aagatcacta ccagaggact 180

gctgcaagtg gacgacagca tgtggtgaaa cactaaacgg gatatgatgg aaccagccgg 240  
gcattcgtaa ctgcatagca gggaactcaa gctgtagaaa gtcacccac tgaagatcct 300  
gaatt 305

<210> 11524  
<211> 282  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220131g10d1  
<400> 11524

gtaaacattg gtttatataa acatgttaaa gcaaattggg atgggattat taagcagtca 60  
cattcttaaa tgccacctcc actgttacac acacactcat cgaaactgtc attattatta 120  
cacaaagaaa aatttgaacc ctcaccatta tgcccatgat ttgcatacaa catagggtga 180  
ccaactccta cggccatcct tctgtatagc cttaaatacag caggaaacac cactcacagg 240  
gcagactcag ggggcatctg aacaaccgtt tttggtggat at 282

<210> 11525  
<211> 334  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmfl02220131g11a1  
<400> 11525

ccttgactct ggcggtcatc gttacttata ctggacgaag cagatgacct tgaacatctt 60  
gacctgaact accaactctg ttgcatagca gctctaagaa aacatcaata tcacgccgg 120  
ccatagacag cacagggttag tagtagacgc tgtccaacgt gcggtaacgt tcagcggact 180  
gcaacttgag gactaccgca caggagatgc ctacagcata cggagtgtga ttaccatgtg 240  
agctatcact acatcaaagt ataggcacgc acaacttaga tatgaaccgg actggccaga 300  
atatactcgt aaatgatgat cgctgagaca ccgt 334

<210> 11526  
<211> 311  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220131g11d1

<400> 11526

ctacagaatc tggcaatgta gacgaggctg ggaacaacct acaatgctca atccttatta 60  
 aaagcattcc ttgtacatat acaccgctta acccagacat gatctttgac caatcaacat 120  
 gtcctagggg gcaaagggtg ttaagctctg ccacaacct agcaactgct cttcgaatgc 180  
 gctactccct taaaggctc agagtcttaa ggatcctctc tctctggtac atatccatat 240  
 atgctgaatg agcatgcgct cacctgtact tgtgtaataa gaggccccgg aatggaagac 300  
 cgcttatttc a 311

<210> 11527

<211> 337

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131g12a1

<400> 11527

cctcgactct gtggatcatc gcacctcatg ctggaagatg ctgatgacct tcaagatggt 60  
 gttcggcatg accaaccgc ttgcggcgaa gctctctgac accgtcatca tcctcatagg 120  
 ctccatgcat cacacgttat gagatagacc agggccatac tgcggttaagt ttcagcatac 180  
 atcaacttga tgcacgccgc accgttgcag cctactccat tcgggggtgtg cgtaccatgc 240  
 agcatgttat acatcatggt gtcggcatcc acagctacga taggacactg actgggcata 300  
 ccacagctcc tcaatgatgt acgctccgac accgtcg 337

<210> 11528

<211> 406

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131g12d1

<400> 11528

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 tttgtgattg gaatttttgt aaagtggcgt ctttagaact aaagaagacc accggggccc 180

cccctttgtg gactgctgaa gaaggcgcct aagttggaaa atggatgctg catacgggaa 240  
 gagaacataa cacctcttct gatgcgattc acaggacccc taagtgggac ggtacgcggg 300  
 cagttattta cattggagca ggaaattata atgtgcaacc ctaaatttag acaaccaaga 360  
 ctcttgtcac ctttgttga gtaccacaga aaatgccaca cttgac 406

<210> 11529  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220131h01a1  
 <400> 11529

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 aattctcctt ccaaagcttc caaatgcttc gtcctaatgg ctttaggctc cttcgatcgc 120  
 tgcccgaaaa actcctccgc cagcgaacg aacccatata tgatggagtg tgccaaaggg 180  
 gttataggac attgagttct ggtctttgta atccatccag agttattggg aatttttctc 240  
 caaatgttgg aaatggtgtt aatttgaaga acttggtgct ttttggagcc gcggatacat 300  
 attgggggac atctagatcc gttcatgggt cagcatcatt ggcaagggac tattacgaag 360  
 tgcttggtgt gagtaagaat gctagttctt ctgaaataaa gaaagcatac tatgggcttg 420  
 caaagaagct ccatccagac acaaacaag atgacctaag gggctgaaag aagtttcaag 480  
 aagtttcaat ggcatatgan ggtttgaagg atg 513

<210> 11530  
 <211> 532  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131h01d1  
 <400> 11530

gatcaataga cagatgaata tatatatagt ttcatgttga cactatgcag aaattatatt 60  
 ctagtttacc catggtccaa tgataaaggc tctccttta tgtgacgtga tagtaggaaa 120  
 aagaatcaca ttgagtgact tgcgcccttt cttatgttat aaggaaacta tatacagcac 180



tgactagaat tctagcctag aggagcatga ggggattgcc ttctaagttc taacaaaaaa 240  
 aattttgaat tgtgatcatc ccttgggacg agaaataaat attacatata ctcgaaaaag 300  
 tggaaggaat taagaaaaga attaccaatc cttaatccta caaaacttca acaaccgcct 360  
 agttgagcat atgattttga taataactct tgcaatgttt tcaaccagaa gcagatgcaa 420  
 ctctctgttt atcaaaatct ccttgcctct ccttggcaaa ctctttaatc aattcccgcct 480  
 gtctctctgt cagattgttt ggaatgctga cgttaaaatg aacatattga tc 532

<210> 11531  
 <211> 467  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131h02a1  
 <400> 11531

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 tgcggaacca cctaaacctg gtcctctttt cgatcttagt tcattcaatc gccacagctt 120  
 tccggcaggc ttcactttcg gggcatcatc ttccgcgtac cagtttgaag gtgcggcaaa 180  
 agaatatggg agaggaccaa gtatatggga tactttcatc aatcaacatc caggtaagat 240  
 agcagatgga acgaatggag atcgcgcact tgaccaatat caccgctaca aggaagacgt 300  
 tcagatcatg aaaggatga atttggatgc atataggttc tctatctctt ggtcaagaat 360  
 cctcccaaat ggaaaactta gtggaggtat aaatcgagaa ggaataaatt attacaacaa 420  
 tctcatccat gaattgcaga ctaaagggtt aaaacctttt gtgaccc 467

<210> 11532  
 <211> 374  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131h02d1  
 <400> 11532

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 cccattcaaa gcagtccatt ttggaaaaat ttccggaacc cttttgcaga aagttttgga 120  
 aatcgggtca aattatTTTT gggatcccca aaaatcaatc ccaatcgggg gttataaccc 180

ttactccatt caaaggagtc cagccgggac cgcacaaaaa atccctttac ttttacgcca 240  
 tcccttattg gataatcaac attcaattga tgaccattat ggtaatcaat tctggaaaaa 300  
 cccctaagag attccccagg ggatagtggg ggaacctcta aatcatttat tccacttttc 360  
 gggttttaaa acca 374

<210> 11533  
 <211> 512  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131h03a1  
 <400> 11533

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 cctggtagaa ccagaaaagc aagttgttgc attagcagat gcatatttct tccctccttt 120  
 ccaaccatca ctgctcccta ggacaaaagg tggacctgtg attccaacta aacttcctcc 180  
 aaggaaagca agactagtgt ttacaataa aaagtcgaat gagacaagca catggattgt 240  
 tgaacttaga gaagttcatg caacaactcg aggtggacac cataggggca aagtgatttc 300  
 atctacagtt gttcctgatg ttcagcctcc aatggatgct gtggagtatg ctgagtgtga 360  
 agctgttgta aaggactttc ctccctttcg tgaagcaatg aagaagagag ggattgagga 420  
 tatggatctc gtgatggtag atccctgggtg tgctggatat cacagtgaag ctgatgctcc 480  
 tagccggaga tcttgctaac cactaatctt tt 512

<210> 11534  
 <211> 478  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220131h03d1  
 <400> 11534

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 taataggcgt ttcttaaata tccagccagg ttgaaaccag cacaaacagt tgtattgaat 120  
 attttattta ataatttgaa cataaccacg tagagaggca gatcctcctc attttttattc 180  
 ctttcaaagc ttggcaatta gccattctg aataggcttg gctggcaggc cattctcttt 240

gtcatccaaa tcacttttgggt ttgggtggaac atcaacagca ggcgagcaat tgaaaaaccc 300  
 atgcggcata agcatgaaac caatgcgttc cacgggcata acaggccagt cttccaatct 360  
 aggaatgtgt gtcactccaa atacgtacca aagaactata tcagcttcct ccagtgatcg 420  
 attttgctta acccaagtag ccaaaccctc ttcaacacgt ggattttgat tagggaac 478

<210> 11535  
 <211> 573  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131h04a1

<400> 11535

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 tgttatttct ggaatcttcg attacctgca agaccttgca gaaggaagca cattgtatgg 180  
 tttcaggggt ggtccagctg gcatcatgaa gtgcaaatac gttgaactta cctcagacta 240  
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 ttgaaactcc agagcagttt aaacaagctg aagaaacagt gcagaagcta aacttggacg 360  
 gccttgttgt tattgggtgga gatgactcaa acacaaatgc atgcctcctt gctgagcatt 420  
 tcaggagtaa aaatatgaaa ctcgtgtgac tgggtgccct aaaccattga tgggtgatttg 480  
 aaatgcaaga agttccacaa gtttgggttt gatcagcatg cagatatatg cagaatgatt 540  
 ggcatgttat gatagatgct cgataactgg aaa 573

<210> 11536  
 <211> 552  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220131h04d1

<400> 11536

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 cactcaggta ctcatgtctc aacctcctat ttacatcact attaccgtac ctaaattgacg 120  
 agacgattaa acattgaact aaaagatcat ggaacgacat attcccaaaa cataaatata 180

agtcgatgat gttgataaag cataaactat tctctagcaa agttccaaag tgaaaaacac 240  
aatcacttga ctaatctccg gtctattata tttgtagtag ttcccaaaaa acatgaattg 300  
ccaccatcaa aaaggcttca gaatgtctta agcttgtgca ccaagctcca agagtaaagt 360  
gtgattaatt gcatcagatc ctgggccagt gaattgaatt ggacctggac taatgtagca 420  
atcttagggc ccaactcatcc ctcaaggagg caaacttttt gaaggggtgcc ccttcaagct 480  
ccaccattgc cttcttgatc acaggcttga atttaccatg tctcctcttc acgtccatca 540  
atgaagtgag tg 552

<210> 11537  
<211> 576  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220131h05a1  
<400> 11537

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ttggtcaaga ttgcatggcg ttttgtacag aagtagaaga tgtcatctcg atgagtttga 180  
cagtagtttc ttcccttctt gaaaagtatg cgattgatcc taaacaaatt ggtcgtctgg 240  
aagtaggcag tgagactgtg attgacaaaa gcaaatccat caaaactttc atcatgcaaa 300  
tctttgagaa atatggaaat accgatattg agggcggtga ttcaactaat gcatgctatg 360  
gaggaactgc tgctttgttc aattgtgtca attgggtgga gagcagctca tgggatggac 420  
gctatggact tgttgtctgc actgacagtg ctgtctatgc tgaaggacct gctcggccta 480  
ctggtggagc cgctgctgtt gccatgctaa ttggtcctga tgctcccatt tcttttgaaa 540  
gcaaattgan gggaagtcac atggctcatg cctatg 576

<210> 11538  
<211> 284  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220131h05d1  
<400> 11538

ggataatgga tgtctttctt ttttacgaaa tgaaaagaaa taatcagagt aactggaaaac 60  
 tgggaccccc ttcgttaaca gaataccggg gactcaaact tataacgtcc aatcctttac 120  
 agggttttac attttcaaaa gcataattgc tagaaacaat tttggggggg atcattttaa 180  
 cttggagagt ttcggaaaat ttttgaacta acaacacctg gctgctacag atttcataat 240  
 tgtgcgcttg gcttccctta agaagaagct aattcaaacg agaa 284

<210> 11539  
 <211> 540  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131h06a1

<400> 11539

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 ccagcggaaa gaatcatgag ttgcttcggc tgttgtgagg aagatgacta ccagaagact 180  
 gctgatagtg gacgacagca tgtggtaaaa aactcaacag gaaatgatgg aaacagtcgt 240  
 gcatccgaaa ctgcaaagca ggggactcaa gctgttaaaa ttcagcccat tgaagctcct 300  
 gaattacacg cggatgaact cagagaaatc accgatggct ttggagaaag ttctttgatt 360  
 ggagagggat cctatggaag agtatattat ggtgttctta aaagtgggca agctgctggca 420  
 atcaagaaat tagatgccag tcaacagcct gatgacgaat ttttagccca ggtttcaatg 480  
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<210> 11540  
 <211> 320  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220131h06d1

<400> 11540

gcaatgtaaa ctttgggatc tataaacatg ttaaagcaag gagggatccg attcagaagc 60  
 agtccctttc ttatatctaa cgtgcacact tatgcacata ctcaatgata cagatatata 120  
 cacagacaac cataactacg gagaaccacc aacaggccca tgaattgcat tcaataaagg 180

ttgaaaagct cagactacaa agctcatgtt tgggtccgaaa tcacctttaa cttgcactca 240  
 caggggaaca tcagagggca tctagcaaca catattggtg gatattctac tactagactg 300  
 gcatttacac actgtctgac 320

<210> 11541  
 <211> 594  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220131h07a1  
 <400> 11541

gtggaggtgg agaaggatat ggggttctac gagacaccgg tggttcctca catgggcagg 60  
 tgcacgtgca cactacattc tctgcgctta aacttgcattg aagagacatg tactctctgc 120  
 ttggatgcac actaacatac tgactattgg caattctgac ccacattcac gtgcaactgg 180  
 atctaatttc tcgaacagga cctcaatatg ctgacagatc tgaattatgc tcagggatat 240  
 caacgccata atgagatcag atctgaaacc ctcagaagtt catggtaggg tatgctagtg 300  
 ttcatgttat cagaagcatc aagcatgccg atcgcggagt ggagcgtact caatgggaat 360  
 atgcggatga tcacagacat tgaatttcca cttaaaggag tatttcacgt ctggggaatg 420  
 cacgtgcaga actggagatg atactccttt accgtgatgc ttatgatgat cagcgacatg 480  
 tgtatcatgt atatctgggt gactacgaca tcattaagga ggcatatgat gctgttgatc 540  
 tcgggatcaa tcagtatgat acagaccagt ctgcaagata cgtgaataat actc 594

<210> 11542  
 <211> 399  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220131h07d1  
 <400> 11542

gtactacggt tggaaatgat ttatcgtact tttgaagatc tactgctctc tgaggagaac 60  
 catatagaca caagaaattc tttgttataa gatgcttata acaataggat caatgacact 120  
 tatcaacata gtagacaccc gacattcatt aactaatata ttgggttaaac tattgaaaga 180  
 aaattgggat aagacagacc acctatgagc aaatgagtta atgaacttga tatagaacca 240

tgtttaagcc actgttccca gtcccatgg ttcataatgca ttcttcaacg caatcagtaa 300  
 agcgtactgt gaatgagtgc gcaaaatcag tgattgcctt tggatcatat gatccccctt 360  
 tacattatta aagcagccta tgccatggcg caggcacca 399

<210> 11543  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220131h08a1

<400> 11543  
 cggagtgga tcccgagaag gacttgctcg ccatggtgac tgacgattct aagatcttgc 60  
 tccatcgttt caattggcaa cgcttggtga ccattactcc aggaagatgc ataacatctt 120  
 tgtgttggcg tcctgatgga aaagcaattg ctgttgggct tgatgacggg acattgtcac 180  
 tgcagatgt tgagaatgga aagctattaa gaagcttaaa atcacattgc gctgccatta 240  
 tatgtctcaa ctgggaggag gagagtcagc taattacaga tgactttggt cacacttcca 300  
 aatatgaaga tagaacctct cgtttctttc ctctgctcc aagagttoct cggatgcctg 360  
 gattggtatc tggggataat ggcttcatgg atgatagcga agattcattt caggagctgt 420  
 caaattcttc tcaccaacga ttcaacatcc tatgcagtgc agataaagat ggaaacattt 480  
 gtttttagtat atttggcatc ttccctatag ggaaagtnta catacacaac cttacttttc 540  
 ctac 544

<210> 11544  
 <211> 523  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220131h08d1

<400> 11544  
 acctcaaaca attagcaaat tattattaat gggactaaa ctccagtact ttcggtcttt 60  
 tactctgttt gatctttttt acttttttgg gcttaactga ttacttctat cttaggaaaa 120  
 ataattaaat taattacgtg ttcaagtga cactaataag ggatatggac attctacaac 180







<213> Glycine max

<223> Clone ID: jC-gmf102220131h11a1

<400> 11549

gtttttgttg ctgagtgtgc gttaaactgt gtaagagagt tatagcagca ggtggaggag 60  
 ctctgcacc tacgatcgat gatccacaac cttatcctcc gacggatcag ttaccgaatg 120  
 cttcttactg cattacgagt cctcctccat ggcctgacgc catacttatt ggttctcaac 180  
 attatctggg gatgctcgga acaactgtgc ttattccac tgctcttggt cccagatgg 240  
 gatgtgtcaa tgaggagaag gcacaagtta tacagactct actttttgta actggaatga 300  
 acacattgct gcgaactctg cttggaactc gattgcctgc agtaattgga gggctttata 360  
 cttacgttgc tacaacaata tctattatc attatggcgc attcagtgc gagccagatc 420  
 ctatagagca tttccagagg ataatgcggt caagccaaag tgctc 465

<210> 11550

<211> 361

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131h11d1

<400> 11550

gggcacttaa cttcttttta ttaactttcc caattccaag tcagcgtgga cataaagaaa 60  
 agccatttcc ccaatgctat aaaatcttgc acagcccaag aggtcttctt gtcccgatta 120  
 cctggcatca gaccccatct cagctcacia aaagtctaag tgcgcccttt cagcctcgct 180  
 tgggactcac tttggcatga actgaaaccc ctttttttta ttagataaga ccgcacagt 240  
 acacaaaatg ggaagcattt gttgaggcag aacggcagtg aataaaaactc tccacttggt 300  
 gagcccacca tgaaggatct gtgctttgac caccaatgct ttctgtatc tatccgaata 360  
 t 361

<210> 11551

<211> 260

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131h12a1

<400> 11551

gttctagatc gtgatctaga gctagaccgg agttgggatt tataggaacc ctctatgcg 60  
 ttcatattatc gatccacgtc catccacatc tttcttctcc tattgtctct gtactgtatg 120  
 cttcttctct gcatgtgaga gtacgactcc atggacttga gcgatgctga ttgagaatca 180  
 agggggactg cccatgctct gaactccggg gcatatcgga tctgcgctag tgggcgatac 240  
 tgtatgcgtg aatgtacctt 260

<210> 11552

<211> 303

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220131h12d1

<400> 11552

ggtcacttat tttctttttt ttaacttttt gaattgcaat taggtgggga cgaaaaaaaa 60  
 atggatatta ccacggccat agaaattcgt ataatccaag acgaccttat ttccctatta 120  
 cctgccaaga taccgaagct cttgtcacia aaagtctaac cttgaccttt gagacacgct 180  
 agggactcgc tgggtggatga atggcaaccc cctatttttc tggagccacc cccgcaccca 240  
 cagacatggg aattattctt tgagacggaa acgccgagca taaatctctt tagttcccgg 300  
 gcc 303

<210> 11553

<211> 509

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132aa01a1

<400> 11553

gctgggtgga ctgaaatcgg tggagaacgc gcacgatgat tcggtgtggg cggtcacctg 60  
 ggtaccgcga accgccaacc gaccaccgct cctcctaacc ggttcctctg acgagaccgt 120  
 caggctctgg cgctccgacg acctcgtttt ggaccgcacc aacaccggcc actgcctcgg 180  
 cgtcgctctc gtcgcgcgcc accccctcgg ctctgtcgcc gcctcctcct cctcgcacag 240  
 cttcatccgc gtcttcgatg tcgattccaa cgccaccatc gccaccctcg aggctcctcc 300

ctctgaagtt tggcaaatgc gcttcgatcc caagggtgcc attctagcag ttgctggcgg 360  
 aggtagtgc tctgtcaagc tttgggacac ttcctcatgg gaacttggtg ccactctgtc 420  
 aattcctcgt ccagaaggac agaagccac agacaaaagt ggcagcaaga aatttggtgct 480  
 atcagttgca tggagtcctg atgggaaac 509

<210> 11554  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132aa01d1  
 <400> 11554

acagcatgta catccatgca ttttcttcaa ttcaaatca atttgtagac aaaagagtaa 60  
 ataacattcc acaaagagta caaatacagc acacaatatc taaatcagga ataatacatc 120  
 agtgatatgc tcttgtcatc tgatacactg gcaagtcgac cacctcgac atcactccct 180  
 ccaggtggtc taaatgcgac tccccatacc tggctgaat gattgctcat tgtctgcaca 240  
 gatgccctca tgtaagatc ccatagcctt acagatctat cacttgaacc tgtagcaatg 300  
 gctgccccat ctgggctcac gtccacacac agtaccacac tagcatgacc tgacatggtc 360  
 ccaattaaag cttttccctc agcatcatac atgttgagc tttccatcat ccgaagctgt 420  
 aaacagcagc cttggatcat aaggagaata aacaagagat cgcccaggca tgaagtgacc 480  
 ttccaggtga tgcaaaaatt tggcgcgggg cacatcaaaa actg 524

<210> 11555  
 <211> 487  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132aa02a1  
 <400> 11555

agagtaacca aaaggagagt gcaataactc gttgtacatt cctagtgtgt gggagagaca 60  
 tggctaagat gtgtgttttg gtgttggttc ttgctctggc tgtggccaca agtgccagaa 120  
 acgttcccaa cccaaggat gctggtctta aggaccagaa gaacttcac agctatgggtg 180  
 gagttgggtg ttattccggg attgggaaca atggactgcc ttttggagga gctggtgccg 240

gaataggtgg tggttttggc ggaggtggtg gacttggtgg tggcctcggc ggtcctaccg 300  
 gtgggatcgg agggtttggc ggtaccggtg gcggtgctgg tggcggtatt ggtggcggcg 360  
 ttggaactgg cgttggtggt ggcagcgggtg ttcttccttt cccttgaaat gatgaacatg 420  
 catgcatgca tgcatatatg ctccgtcacg tttctttgat tacactagtc tttatttttc 480  
 ggtcggg 487

<210> 11556  
 <211> 369  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132aa02d1

<400> 11556

agtaaataaa tggaactcat atattgaggg cattagttcc atgctaaata tgaaatattc 60  
 catatgtaaa agaaccacgt ttttgagtga ctatggctgt cacaaaacct aagcgaatga 120  
 tagaccaga atgacacatt acaactatth tttactttcc acaggcgaaa gaaacactag 180  
 aacaaagctt gaacgattaa cgacacgtac aagcaciaac cacaattatt tcccgaacga 240  
 aaaataaaga ctagtgtaat ccaaagaaac gtgacggagc atatatgcat gcatgcatgc 300  
 atgttcatca tttcaaggga aaggaagaac accggtgtca ccaccaacgc cagttacaac 360  
 gccaccacc 369

<210> 11557  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132aa03a1

<400> 11557

cttagctgaa ccctcacctc aatcttgctg gctagctagc tttattccaa ttcctacaga 60  
 accaaattat tctgctagct agctagtagc tcaaataaaa taaaataatc aaatatggca 120  
 ttcagcggga cccaacagaa atgcaaggct tgcgacaaaa ctgttcaatt tgtcgaaggc 180  
 ttatctgccg atggagctgc ttatcacaag aactgcttca gatgcagcca ttgcaatggc 240  
 cttcttgcca taagcaatta ctcatccacc gaaggagttt tgtactgcaa ggtgcacttt 300

gagcagcttt tcaaggaaac tggaacctac cccaagaaat cccagtcgtc tggaaagcct 360  
 ccactcgagc tgaatagagc accaagcaag ctttctgcct tcttctctgg gactcaagag 420  
 aaatgttcaa aatgc 435

<210> 11558  
 <211> 491  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132aa03d1  
 <400> 11558

ataattaagg agagttgtat agaaaagaga ttgcttttgt aatccatcat caattcagac 60  
 aatagaatct tctttttcta ctctgatatc tgtttcttaa tacacagaat gaaatacatc 120  
 tgaaatgact gaggcctggc ttgcactttg gcttgagaaa gtcattgtaca tgcccccagg 180  
 aacagagagg cttaacctac tgattgtttg caaattatgg aacacataat actgtaatag 240  
 cccttttgtg ggaatgatac aaggccacga cccaatcaat caggaacttc aaaatgtccc 300  
 aaatgaaatg gggatttact tgtagccaga aagatcaatt ttactcaaag acacaagtga 360  
 agacccccgc ttgcaaaaat taatgttcca tcaatcaatc tagtgctctt gctcagagtg 420  
 atcatcatca gcttgttcag cttcctttgc tgctgttgtc gtgtctggct ctgactctga 480  
 gcgatcatca t 491

<210> 11559  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132aa04a1  
 <400> 11559

gagtacttgt tttgggatgc ttttcacatc actgaagctg gcaatgttgt tgtggctcag 60  
 agagcttaca gtgctcaatc tgcattcagat gcttaccctg ttgatatcca acgcttagct 120  
 cagatatgat ctctgaacaa tcaacatgtt ctagtgggta gtggctatta agctctgcc 180  
 caaccatatt taatgttctt cgaatgtgct actcctttta aggcataaga gtcttaagtt 240  
 ttctctcttt ctcttacata ttcatatatg ctaaatgttc atgggttcac aagtacaggt 300

gtaatttgtg gtaaagtttt ggaagattgc ttatttaatt atagtgaata atagtatg 358

<210> 11560  
 <211> 363  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132aa04d1

<400> 11560

atgggggaaac attatactat ttttcccttt aaataaataa gcaatcttac aaaactttac 60  
 cacaaattac acccggtgctt gggaaccctt gaatcattta tcttttatga atattctaga 120  
 gaaagagaga aaacttaaga cttattatgc cttaaaagga gttgcccttt cgaagaacat 180  
 taaaaatggg tggggcaaaa cttaatagcc actaccctt aaaacatggt gattgtctca 240  
 aagatcatat ctgagctaac cggttgatata taacagggtg agcccttgat gcaaattgag 300  
 cacttcaagc tttttgagcc acaacaactt ttccagcttc tgttgggaata aaagctttcc 360  
 aaa 363

<210> 11561  
 <211> 535  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132aa05a1

<400> 11561

gtgcattgaa ttggtgctgc atttactcaa cgaattgaac aaggtggcat gatgcgatga 60  
 gttggtgttc tatgagggtg ttctcagtgt aacactctga atttgaagca aaatgttcag 120  
 tccaagcatg gattctgcaa gggatgagag tgggtgtggca gggaccgtgc tcattcccat 180  
 gcggtttgtg tggccatacg gaggaagaag tgtgtatcta agtggttctt tcacacggtg 240  
 gtctgaactt ctacaaatgt cgccagtggg aggttgccca actgtgtttc aagttattca 300  
 tagcttgatc cctggtcac atcagtacaa gttttttgtt gatggagaat ggcggcatga 360  
 tgaccatcaa ccttgtgtat ctggagaata tgggatagtt aacactgttt tattggctac 420  
 tgatcctaatt attgtacctg ttttaactcc agaaatagtt tctggatcta acatgggatg 480  
 ggacaatgag gcttttcgat gcatgggtccc gatgacagac agtacattaa ataata 535

<210> 11562  
 <211> 501  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132aa05d1

<400> 11562

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 caaaacaaga gttttttcgaa tatgggcctc ccaataatTT ccccccccg aatttggatc 120  
 ttcacaatat gaaacgattt cagacagaca ttgggcactc ccctttgctt gggatatctat 180  
 aacagggggc caacatatTT gaacataata tgactggggg tgagatgaat aaatttgggg 240  
 caatcagact aaaattttaca ggcctTTTT tctcaagcct aaaatcttaa aacaaggcaa 300  
 tgaaccaaga ggtcaatcca attgtatttc aatgaaataa agatcaaata accgggtaaa 360  
 agctctggaa tctcttttta ggggctgggc ccaaatgggt gcctgactat atgcataagt 420  
 gtcatagccc ccacactaac tgggtataacc caggaagaag ttgaatatgt cactcaatgc 480  
 tatgaagcct tttacgcgt t 501

<210> 11563  
 <211> 470  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132aa06a1

<400> 11563

ttgtgtttat ttttttcttc ctttttctct ttttataata tcagccccca aactcccttg 60  
 tgtacagtga tcgatctcaa gaagaaagac tcaaaaaatg gaggggaatc tagagaagaa 120  
 gttgctgagc aaagaggaag tgtcagaaga agataattta tcattgggtga agaggggtgtg 180  
 ggaagagagc aaagagatgt ggatagtggc agcaccagcc atattcacia ggtttacgac 240  
 ctttggcatc aatgtttataa gccaaagctt tattgggtcat attggttcaa gagaactcgc 300  
 tgcctatgct cttgtattca ctgtcatcat acgtttcgca atgggtattct gttaggaatg 360  
 tcaagtgcgt tatcaacact ttgtggacaa gcatacgggtg caaaagaata tgacatgatg 420  
 ggagtgtatc ttcaaagatc atcgataggt tttgttttta actgcactct 470



002220" 032200

<210> 11564  
<211> 577  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220132aa06d1

<400> 11564

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gatggtacta tagtataata actatcaagc aatcccctga atgtataacg tacaatagcc 120  
aaacaaacaa tgatgatatt gataaatagg agtctgaaac taattatctg atgtacttgt 180  
ttcaggaaca agtccacctt ataccactta ctaatacgat tacgggctat agttacctgc 240  
tcatcccaat tagttttgta ggtgattata gttaggacta tagtttgaac tagtgtccca 300  
aacaacattc caatccaaat acccttgact tccaagtga taatgttacc aagtactatt 360  
ccaactggaa tacctatgag gtaataacac cctatgttca catacgctac agtgctctgc 420  
cacctgctc caacagccac cctgttgaa atcatacaat ttcatgactc tcagactccc 480  
caattgacaa attaattntg gctttatcat gcataaacia ttgggttcaa atcttaaaca 540  
tattcattaa accaagacac caaaagtata tagcata 577

<210> 11565  
<211> 377  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132aa07a1

<400> 11565

caaacatggc aatgaagaag ttcttgtggg ttgttctgtc cctttctttg gtccttggag 60  
tgGCCaatag ctttgatttt cagacaagg atttggagtc cgaggaaagc ctgtgggact 120  
tgtacgagag atggaggagt caccacacgg tttcggaag ccttggtgac aagcacaagc 180  
ggtttaacgt gttcaaagcg aatgtgatgc atgtccataa caccaacaaa atggataagc 240  
cttacaagct gaaactaaac aagtttgctg acatgaccaa ccatgaattc aggagtacct 300  
atgctggctc aaaggttaat caccatagaa tgttcagaga catgccacgt gggaacggga 360  
cctttatgta tgagaag 377

<210> 11566  
 <211> 567  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132aa07d1

<400> 11566

gtaataagca taaatatatt gatggatata ctggcattga atctgagata ctaatagaaa 60  
 acaacaacca aagctaatta gagtatgatt ttgtgggaag cattcaaact tcaaagttca 120  
 tcttttaggag atgatgaagg tcctgttgga ttattggagg agtttttgat tgcgtaggaa 180  
 gccaacatag ctatgccaca tagtcctgc tttttagata tgttcctttg cattctgatg 240  
 taaccctgtt ctccccattc tgggtcccaa gagttcctca ctatccagta actagtccca 300  
 tcaacagttg ctccataccc cacaatcgcc acaccatgat ttagctcgt gctacaatca 360  
 ccagtaaata ctccctcgga gtagaactgg aaatcagatc ccccggcac aatggctaca 420  
 gaaacaggtt gggtggcaac agctttgagc aatgcatttt catcgttacc aggtacattc 480  
 tcatggccat caattgatac agctaggtca ttgccttg atgcatcaca tgttccatct 540  
 tgagctgtgt cagggttaata gctttct 567

<210> 11567  
 <211> 551  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132aa08a1

<400> 11567

gacgcagcaa gatctattca atgccatggg atcgatgtat tctgcaatcc tcttcattgg 60  
 tataacaaat ggcacagctg tccagcctgt tgtttccgtg gaaagatttg tttcttatag 120  
 agaaagagct gcagggatgt attcagcttt atcatttgca tttgctcagg ttgtgattga 180  
 gttcccttat gtgttcgcac aggctattat atactcttca atattctatt ccatggcttc 240  
 ctttgtctgg actttcgata gggtcatttg gtacttattc ttcattgatt ttacgatgtt 300  
 atattttacc ttctatggaa tgatgacaac ggctgtcaca ccaaatacata acgttgctgc 360  
 catcattgct gctccatttt atatgctgtg gaaccttttc agtggtttta tgattcctca 420

caaggatgg aaaccgatac ttcattggta ctcaattgat aattttttgt cattgactgc 480  
 attcatccat ttgctcccaa tagacaataa cttcttgact atcttgatgt caaaagtgt 540  
 tcatcgggta t 551

<210> 11568  
 <211> 594  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132aa08d1  
 <400> 11568

atattactta ttgaatatta ttcactttca ccaaaatgtg tcattaccaa ccagtaatct 60  
 gatttcatgt ctaacagaaa ccctataaac caatagtacg tcaactttaca acaatttgtc 120  
 cctgaatttt tgtaaacc aaataatttg gataatgtat tcttattagt ttacaaaccc 180  
 taaaagcaca ctagtgtat gctataatca tatcgctata cagatgtcac gcttattttt 240  
 atgaggtatc gaagatctaa catacaattt gggtacaatg tctctagtgg ctagcaagtc 300  
 tcatcccatc atctcctttg gaaattgaag gatttaattg caaaggcaaa tataattgca 360  
 aaaaatatgc agaagccagc caccataaca gcagtaacgc acaagaaatc atgcctgtac 420  
 ccaaacacgt gtttgagtac ctctcttata gtcacgagt ttccattaga gagcttcact 480  
 aaatgagttt caccaccata ctgtgaagtt aggagaccat acagactcca ggctacaggt 540  
 ttgcgccagt aataccatct tcaccaaata gggattctct gagaattaaa gaag 594

<210> 11569  
 <211> 524  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132aa09a1  
 <400> 11569

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 caaagctttt ctatcaacat atcgttctcg taactctgct caaccactag tccacttcag 120  
 cgacgcaaga cgaataacat tacataatcg aatttacatt cgacacttaa aacgccgatc 180  
 cgtacatttc tctagctgtg tcgttttgac tgatcaatga atggatttcc gagacacgag 240

cgccgatggg cgtccgacag cgttccggga aaagcgaccg tcagcgccgg aacttcgccg 300  
 ggaactgagt ccaactccgc cgcgaggag tttgtggagg tgactctcga tcttcaagac 360  
 gatgacacca tcgttctccg gagcgctcag ccagcctccg tcattaacat cgacgacagc 420  
 gtcgcaggca gcggaaacca aactccggcg tcggtttcga ggtctccgac gatccgctcg 480  
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<210> 11570  
 <211> 517  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132aa10a1

<400> 11570

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 cgcccgtttc cgcggcgca agatctgagc atgcggtgcg tgcagtgggc gttcctcggc 180  
 tgccccggcg tcggaaaagg aacgtacgt agtcgcctgt ccaacctcct cgcgctccct 240  
 cacatcgcca ccggcgatct cgttcgagc gaactcgct cctctgaccc cctttcttcc 300  
 caggttctct tcttcttct cttcactttg aattaactag attaatTTTT gtaacgcaaa 360  
 tttggtcaag gttattgaaa tttctgcgta cggcgacgag cttagacaga aaaatgggat 420  
 gataattatt attttaaaaa atataaaaag ttgtcatcta atcacaaacc gttaccataa 480  
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<210> 11571  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132aa10d1

<400> 11571

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 tcacatttaa tttacaacaa tagtgatgat gcaccaatcc tatcgacgtt gattcctgac 180

caactatctt tctagcaata ctgggatata ttattcactc ttcacaataa cattatatgc 240  
taggaaaccc ttcccatata accaaattat acgaaaacaa aacgcaacac taccagtctt 300  
atcagattac aacacttaca aatatcatca ttgggtccaaa ataatactag cagagaagtt 360  
cccttgcttt gggtctctgt cctgcaaaat tgccaagcat gcaatataag cacgcaaaga 420  
atgaaatact tactgttatg atacattatt atatctttat gctgcagcag atcgtttgtc 480  
cttgtaatca tcaaga 496

<210> 11572  
<211> 525  
<212> DNA  
<213> Glycine max  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220132aa11a1  
<400> 11572

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agttccagtt gatcaatcaa cgtgcagatt tctcatttgc actattttca ggtggattat 180  
ccgatcctag acttgtggca atttcgaatt ccatatcatt tgcaaatcct aaagcacctg 240  
tgtatccgcg ccttgctcta ggaaaatctt gggatgaaat gacagttaca tggacaagtg 300  
gatatgacat aaatgaagct gtgccttttg ttgagtgggg accaaaggga ggaaagaaaa 360  
cacgatctca tgctggaaca ttgacattta accgaaacag catgtgtggt gaacctgcac 420  
gaactgttgg ttggcgtgac cctgggttta tacacacaag tttcttaaaa gaactgtggc 480  
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<210> 11573  
<211> 542  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220132aa11d1  
<400> 11573

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catgttgcta gagtagtttt ctcacaacca tcgtgcacac aggccaaaac atctctgtag 120  
tctcttgaaa tgggtaaagg agtcgtagac ctctccatca ctacttttct tgtactcaaa 180  
caagagatat gaatgattga aagcagtcaa tttgccaaaac ccatagtcaa cgccctata 240  
aagactccaa ataggggggtg atgggtgtgaa gtctgacagg tgacttcccc cttcaccaac 300  
aaccacatga attgttccat tcacagtgcc agagtagtga tgcttttctt cattcacaca 360  
ttgattctga taaatggggc atactctttc atagttagtg acatgaccat aaaatccaat 420  
gtctactttg tacttttgcc aaagcttctg caaactttcc ctcccatgg gctcttcaaa 480  
tgaaccctcc atgccatacc aaagattaga ggagtagcca aggggacgat gagctgaaaa 540  
ga 542

<210> 11574  
<211> 567  
<212> DNA  
<213> Glycine max  
<223> Clone ID: jC-gmf102220132aa12a1  
<400> 11574

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aggttgacca gtcacagca ggtgcataaa agacctttaa ttgtagcttt taaaggaaat 180  
aaattgaata aagccgcttt ggtttcacct caggagcaaa ttctctacc catagaaaca 240  
gcaaagaaag accaaaaaag ggtaggaaag actagtgagt ctctgaagag agtgagagct 300  
gtctctattg ttgaaacctc tccatgcacc ttggatatgg actacaatga agctgcagcc 360  
aaacttgaaa atatatataa actcagccct gtatctgata cctgtaatat ggaagatatt 420  
gatagtaaag tcgagagagc tttgtggagg aggaggaagg tctggtaatg aacatgatga 480  
tgaacattgt gatattgtgg ttagaaacca gaatatgaag gccaaacgat tgagtcttga 540  
ttagaggatt acattgaaaa ataatgc 567

<210> 11575  
<211> 518  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ab01a1

<400> 11575

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 cgttcaacgc cgacgggtgg ggtccgccgg acaacgcgac ctcaggcagc aacaacaaca 180  
 acctccctct gaacgtcccc ttcgccccct tctcccgtc cgacaaattg ggccgcatcg 240  
 ccgactggac ccgcaacttc aacaatccga cccgctccaa gaaccccgcc gatgccgtct 300  
 tcgacttcgc caacgacgac tccttccccg cctccgccga cgacgacgcc tccttccgcc 360  
 tcgtcgacgg aaagcccccg ccgcgcccc aattcgcccc caagtggcgc ttccagcagc 420  
 agcgccagct ccctcagcgg cgcgacgagg aaagtcgagg ccaagaagcg cgagcaggag 480  
 aaggaacgag cccgcagaga ccgtctctac cacatgaa 518

<210> 11576

<211> 389

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab01d1 .

<400> 11576

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 acttaaatat gctaaggtct gtaaatacata aacagctgta gcatagaaaag aaaataaaaa 180  
 actcaggttt tgctttaaac ttttgggtcca aaggaacatc acattgcaaa attttggccg 240  
 acaaagcagt gttaaagaaa atcattctga gtgcgatctg atcacatatg atcggccaca 300  
 tctactccaa taaacatgtg accttttaag cttgaccatc tatctgcttg tcttccacat 360  
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<210> 11577

<211> 396

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab02a1

002220 "E" 032200

<400> 11577

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cccttcattg aggagaatat cacaaaacca gattggaggc aaagggaggc agcctcttat 180  
gcttttggat ctatcttga ggggccttca cctgacaaat tagctcctct tgtaaccat 240  
gccttaccat ttatgcttag tgcttttagt aaggacccaa acaaccatgt gaaagacacc 300  
actgcttga ctttgggacg aatgttcgaa tttcttcaca gttcaattgt tggtagacca 360  
atcattaatg aggggaaatt gccaacagat tattac 396

<210> 11578

<211> 434

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab02d1

<400> 11578

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acaaaaagaa agattcacgt gaccaaataa aatatacagg aaacatgaca aaattcacia 120  
acttttactt agacaagaga aagataacac caatagtaag cttaaactcag acgactcctt 180  
ccaacaattg aaacaacaat ccaccacact aaagttcttt tggatatcat acagtatatg 240  
gcatgtttct tctgtatgcc caggaatagc caatatatga ttacatatg catttcagaa 300  
caaaggaatt taacggctga tgattttcat gaatgcatga tgatttttga cctacgaaac 360  
caactgacat gtaaaaaaat gcataatgct aggatgtaat ctttcccatc ctgggtcaac 420  
aatcacaatt gatc 434

<210> 11579

<211> 406

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab03a1

<400> 11579

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 atttcaatcg cagcccaacc caaagctttt ccacctttcc cattcattcg cacaattccc 180  
 ttcgcccttt tccttttcgg ccaaaagggt ctccggcgct tcgcctctct ttgaccgttc 240  
 cgggctcgcc tccccaggcc tcttgagaga gagagaaaac tgcttttcta gagagagaaa 300  
 gtcaccatgg gaatgtagag tggagcttct tcccttggtg ctgctgctgt tggtgctggc 360  
 gaccgagcaa tgttggaat ggagaaggat tttgattcca agctga 406

<210> 11580  
 <211> 334  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ab03d1  
 <400> 11580

acatagaatt gccagattac acctatgtta tttacagata gccaggggcc aaattatcca 60  
 tttgaaattt caagatgggt tcaactgttta accacgggct gaagaaacca ttaaagggtg 120  
 ggcaatttca atgattcata cattatgaca actagaatga tatcatcttc caactcataa 180  
 tatttaatat ataattaa aaccattttt tttcttacia agtattgggt ccacctcag 240  
 acatagctac aattagaact tccacatttt atcgctcttt caaagcttga aagaggatgg 300  
 aaaacctctt cccaaattaa acctggggtg ggga 334

<210> 11581  
 <211> 575  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ab04a1  
 <400> 11581

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 atttgcaaca aaggccaaag ttgcgcgagc tattgaggct gaaggaattc ctttactta 180  
 tgtgtcaagc aacttctttg ctgggttactt cctgcccac ttgtcacagc ctggagccac 240  
 agctgcccc agagacagag ttattatcct aggagatgga aaccccaaag ctgtttttaa 300

caaggaagag gatattggaa cttatacaat caattctgtg gatgatccaa gaaccttgaa 360  
 caaaattctc tacattagac caccagctta atacctgtc gtttaatgga gcttggtact 420  
 ctctgggagg gaaagattgg taaaactctt gaaagaatct atgttcaga agaacaactc 480  
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<210> 11582  
 <211> 561  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ab04d1

<400> 11582

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 ttttaccat taaaccaact taatcagcta ggctttgcac cttagacaaa ctgattaagg 180  
 tactcatcca cagtgatgta tttcacatca ggatataagag ctgaagcttc cactccaaaa 240  
 gaagactcaa tttcaaagtt agtatgatcc cctttacat aagaagagt gtttaattgac 300  
 aggatcacat tcacgggtgg tgcggactct tcaatttgc tcaaggagt tcttcttgga 360  
 acatagattc tttcaagagt tttaccaatc tttccctccc agagagtaac aagctcatta 420  
 aacgacaagg tattagctgg tggctctaatg tagagaattt tgttcaagg tcttggatca 480  
 tccacagaat tgatcgataa gttccaatat cctcttcctt gtaaaaacag ctttgggggt 540  
 tccatctcct aggataataa c 561

<210> 11583  
 <211> 558  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ab05a1

<400> 11583

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 caaagcacia ttaggtgaat ggtataatac taatgtgggg ccttttagatc aaagaaagag 180  
 caccgtggac ccagcattgg tgactgctga agaaggcgct aagggtgtaa aggtgatgca 240  
 agatggcagt ggggaattca agaccatcac tgatgccatt aaaagtatac ctagtgggaa 300  
 cactaagcgt gtaattatct acattggagc tggaaattat aatgagaaaa tcaaaattga 360  
 gaagacaaag ccttttgtca ccttgatgg ngtagcagag aaaatgccaa acttgacttt 420  
 tgggggcact gcacaacaat atggcactgg tgatagtgtc acattgattg ttgaatcaga 480  
 ttattttgtg gcagctaaca tcatgatctc gaacactgca ccgagacctg atccaaatac 540  
 gccaggaggt caagcagt 558.

<210> 11584  
 <211> 613  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ab05d1  
 <400> 11584

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 aacaataata aatttccaaa atatttttaa caaagggtgt atcatagtgc acatgaacac 180  
 caaaactcac ttaatcaaaa ttacaagga tctcacttaa ttttaaatac ccaagactaa 240  
 agcaaataaa ttacaagaca ccaaaactca acaactcgag caatctagta ttgaattgga 300  
 ataccatttt ctaattcacc atccactaaa acatggggtg cattattcct caagccagac 360  
 aaaaatgtgg taattaatta aaccttgga gttggaggag gaagtagcca tttggagcct 420  
 tcaatcatcg caagtgttat gtaagggtta acctccgttt cacttagttg cttagttata 480  
 gtagcacgcc ctttggggtc tgcaccaggt cccgagttct gatactctcc aaaacgaaca 540  
 gttttgtcat gttcagggtg actgggtgta ctccacccta atttatttac aatgtcactc 600  
 atgctgctgt atg 613

<210> 11585  
 <211> 479  
 <212> DNA

<213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ab06a1

<400> 11585

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 ttcatgctg agcaggcttg taagtttctg aagattggcc ttctttgcac tcaagaatcc 180  
 ccaaagcacc ggccatccat gtcttctgtg gtcaagatgc tcaatggaaa aatggatgtt 240  
 gatgacagta agataacaaa acctgcctta atttctgatt tactggacct cacagttaga 300  
 gggaacgaag aaagtagtat tgatatgaag aattcatcta tgtatacaac ctttntcttc 360  
 agacatccat gatactacct cgtcatttgc cacaactaca tccttacagc ataatatgat 420  
 gaaagcgtgt aaacatcgat cgatagagat ttgtccttta atcaaaaaaa tgttttgat 479

<210> 11586  
 <211> 533  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ab06d1  
 <400> 11586

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 aagtatgaaa aaggttggat ttttacatta gatacatgcc taacaaaata aaaacatttt 180  
 ttgattaag gacaaatctc tatcgatcga tgtttacacg ctttcatcat attatgctgt 240  
 gaaggttgta gttgtggcaa atgacgaggc agtatcatgg ttgtctgaag aaaaggttgt 300  
 atacatagat gaattcttca tatcaatact actttcttcg ttccctctaa ctttgaggtc 360  
 cagtaaatca gaaattaagg caggttttgt tatcttactg gcatcaacat ccatttttcc 420  
 agtgagcatc ttgaccacag aagacatgga tggcctgtgc tttgtggatt cttgagtgc 480  
 aagaaggcca atccttagaa acttacaagc ctgcttagca tcgaattccc cca 533

<210> 11587  
 <211> 426

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ab07a1

<400> 11587

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 ctccctgggg atggcatcaa atggaacgtc tccaagttcc ttgatgataa agaggggaat 180  
 gatgctgacg gctatgcacc cacaacttct tctctgagca ttgataaaga cttgctgaca 240  
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 aatgctctgc tgatgctgct gcaatttcct gtgtgcctta tatgtaccga aacagggtgct 360  
 cttgtatctc tgacattaga ttcataacca tgagactgtg tacttattat tgtgtgaatg 420  
 taaagt 426

<210> 11588  
 <211> 438  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ab07d1

<400> 11588

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 cagcatctgc agtacatttc ttattcatag tttatttatt ggcaactcca tacattcata 180  
 acttcatgca tccaacaact tcagcaagtc cttctcaatg ctgagaggag aagttgtggg 240  
 tgcatagcga tcaacaacat tcccctcttt atcaacaagg aacttggcga agttccattt 300  
 gatgccatcc ccaaggagtc cacctttgct tgattttaga tatttgtaca gtggagcagc 360  
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 aacaaactct tgtatctg 438

<210> 11589  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ab08a1

<400> 11589

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aaaaacctgc cgctaagcaa tccggtgggt aagaagaagg aggtgaagaa ggagactggc 180
ttatgtctca cgcacgga ggcggagaac ttctgagagt ggtattccga ggttggtgtt 240
aatgccgaaa tgattgaata ctatgatatt tccggatgct atattctgag gccttgggtca 300
atggcaatat gggagatcat gcaagagttt ttcgatccag agagattata taacctgttg 360
gagatcatct aaaa 374

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<210> 11590

<211> 340

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab08d1

<400> 11590

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cactctccga agttctccgc cttccgatgc gtgagaccta agccagtctc cttcttcacc 180
tccttcttct tcccaccgga ttgcttagcg gcagggtttt tggattcagt tttttttgct 240
tcagttcccg ccatcgtgaa ggacgagcac ctgatcccg tgcaaagaag tcgaaggcga 300
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<210> 11591

<211> 449

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab09a1

<400> 11591

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agggtgcctga gtcctccga agtcaaatec cacgcgccgt cgacagacgc cgcgtccttc 120

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cgccccgtttc cgcggcgcga agatctgagc atgcggtgcg tgcagtgggc gttcctcggc 180  
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 cacatcgcca cgggcgatct cgttcgcgac gaactcgcct cctctgacct cttttcttcc 300  
 caggttctct tcttcttctt cttcactttg aattaactag attaattttt gtaacgcaaa 360  
 tttggtcaag gttattgaaa tttctgcgta cggcgcagcg cttagacaga aaaatgggat 420  
 gataattatt attttaaaaa atattaaaa 449

<210> 11592  
 <211> 515  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132ab09d1  
 <400> 11592

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 aaagccttcc ctaaatacag agcatgtgat gatgtgttga tgtaatagaa ttaggttatt 120  
 tcacatttaa tttacaacaa tagtgatgat gcaccaatcc tatcgacgtt gattcctgac 180  
 caactatctt tctagcaata ctgggatata ttattcactc ttcacaataa cattatatgc 240  
 taggaaaccc ttcccatata accaaattat acgaaaacaa aacgcaacac taccagtctt 300  
 atcagattac aacacttaca aatatcatca ttgggtccaaa ataatactag cagagaagtt 360  
 cccttgcttt ggttctctgt cctgcaaaaat tgccaagcat gcaatataag cacgcaaaga 420  
 atgaaatact tactgttatg atacattatt atatctttat gctgcagcag atcgtttgtc 480  
 ctcgtaatca tcaagattaa gagcatgtag caact 515

<210> 11593  
 <211> 547  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132ab10a1  
 <400> 11593

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002220" E1 F550

cttcctctcc atttgcaccc ttgctttcat caatgaaggg tcttcctccc tctcaagtgc 180  
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 ccatgagatc ttcaaaacat gccttttcaa tgttggtatt gggttgctac acttggtggg 420  
 gtcaaagctt gctcattaca tcattgagtg ggtgaaggat cacaagccga tgaacacaag 480  
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 ctttact 547

<210> 11594  
 <211> 598  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ab10d1  
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 acagtcctca tacatgaaaa cattgacagg attaacaatc catgcacata cttaaccttt 180  
 attccctaac tcatgtctac ctctagacaa catcaaggaa tgttttcaac atttagtact 240  
 catatagcac taacatgaca agacacatat atatatatat aaaaagata gatcatcact 300  
 cattagtcac tacaattgac tgcttaagac tatcatccaa ttccaccttc acctcattga 360  
 gtcacccatt gacaccacta ctcatccctc aacattctga tgagcagatt aatgcttgat 420  
 catccttggg ctccacactt tgaattggag aacaattatc ctcttccgcc accttcatgc 480  
 atggcttctc ttcaagtggg tctgtgtgtg ttctccag ttccctgacc aaagactnga 540  
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<210> 11595  
 <211> 427  
 <212> DNA  
 <213> Glycine max



002223 033200

<223> Clone ID: jC-gmf102220132ab11a1

<400> 11595

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 aggttgacca gtcacagca ggtgcataaa agacctctaa ttgtagcttt taaaggaaat 180  
 aaattgaata aagccgcttt ggttttacct caggagcaaa ttctctacc catagaaaca 240  
 gcagagaaaag accaaaaaag ggtaggaaaag actagttagt ctctgaagag agtgagagct 300  
 gtctctattg ttgaaacctc tccatgcacc ttggatatgg actacaatga agctgcagcc 360  
 aaacttgaaa atatataata actcagtcct gtatctgata cctgtaatat ggaaagatat 420  
 tgatagt 427

<210> 11596

<211> 575

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab11d1

<400> 11596

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 atggctatag gtaacgtacg tgggactatc atgacagcaa tggaactata tatatttgtt 180  
 aatttataca acataacgac gaagataatc caaccgtgct ggatgcttaa gttcatgag 240  
 agccttgact tcatgcttcc gaaccatttc cctagaaata ttcaagttcc cagcgatttc 300  
 tccaatgtc ctgtcacctc tgccatcaag tccatatctc tgtctgatca ctaggctctc 360  
 ctttggcttc aaggaatcaa gcacatcatc aagagcaagt cttagaacag caagttgcct 420  
 cctattatca ccattaacac catcaacatc agtaatccca ttaatatact ccttttgtgt 480  
 ggatatatgt cttgaatgaa gggataaaat gggttttgat gccttcatta cttcataata 540  
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<210> 11597

<211> 457

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ab12a1

<400> 11597

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 caggtggcac atattacatt atgccatcaa cttgtggcgc tgccggtggt ggattgaaac 180  
 tacgccggac aggaaactca aactgccag ttactgcttt gcaagattac tcaaaaatct 240  
 tccgtggcac accagtcaaa ttcagcatac ctgggataag ccctggaatc atctttacag 300  
 gtactccact tgaaatcgag ttcgcagaga aaccttattg tgctgaatcc tccaaatggg 360  
 tggcgcttgt ggacaatgaa atccaaaggc atgtgtgggt ataggtgggc ctgaaagtca 420  
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<210> 11598

<211> 494

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ac01a1

<400> 11598

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 cacctctctt ggtgtcatta ccaggggaac tataattgag gtgaatgtca gtgaacttgg 180  
 tcttgtcaca cctgctggga aagttgtgtg gggtaaatac gctcaggtca caaataaccc 240  
 agaaaatgat ggttgataaa atgctgctct gcttgtttaa ggtcatagca accatcaggg 300  
 ttccagcttg atttcaaagg cagaggtcaa gtccctctcc tatgattttt gtggtcttga 360  
 accccaatct tcaagggaga atcttacaaa ctttgttggt accagagaga agattgtctg 420  
 agaaaatagt gaagcatttt tgctttcttg tttggatagt caatgcaatt atctgatcta 480  
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<210> 11599

<211> 379

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220132ac01d1

<400> 11599

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agacttgcac gcctcacctc gggctgcaca ataattatct taaatgttaa gcgctagatc 180  
agataattgc atggactatc caaacaagag aacacatatg cttcactatt ttgtcagaca 240  
atcttatttc tggtagcgac aatgtacgag agactttcca atggaaaact gaggtagagg 300  
accacaaaac tcattggaga gggactcgac caccgccttt gaaataagct ggaaccttga 360  
tggtcgtatg accttaaac 379

<210> 11600

<211> 484

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220132ac02a1

<400> 11600

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gaagtcggga gggtcagcat gaggaagacc gtcaccaagc aggcctcctc cggaagccca 180  
tggtacggcc cagaccgct caagtacttg ggcccattct ctggcgagcc cccgtcctac 240  
ctcactggcg agttcccagg tgactacggc tgggacactg ctgggctttc ggccgaccca 300  
gaaaccttcg ccagaaaccg tgagctcgaa gtgatccact ccagggtggc catgctcggg 360  
gccttgggct gcgtcttccc cgaactgttg tcccgcaacg gggtaagtt tggagaagct 420  
gtggggntca agggcggtcc cagatcttca gcgaggtggg gctgactacc tgggcaaccc 480  
aagc 484

<210> 11601

<211> 342

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ac02d1

<400> 11601

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ctgaaacacc ttggtgtaaa ttatatTTTT cgcaaaccga acttcaaata ctttaaagag    180
ccaccaagac tcctttcttt tgatgcccaa ttcccgggga ccaaacttgt ggcttatgac    240
cacacattgt ggctgaatgg gcccgcaagg ggaagggcat ggttttctcca atgggccctt    300
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<210> 11602

<211> 354

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ac03a1

<400> 11602

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tgacatttga tgatgttgct ggggtggatg aagccaagca ggactttatg gaggttgtgg    180
agtttctaaa gaagcctgag aggttcactg ctgttggggc tcgcataccg aaaggagtgc    240
ttcttgttgg tcctccagga actgggaaga cactgttagc caaggctatt gctgggtgaag    300
ctggtgttcc atttttctca atatcaagtt ctgaagtttg tgagatgttt gttg        354

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<210> 11603

<211> 316

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ac03d1

<400> 11603

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aaaagggggg ggaaaaccct taatccttcc caaaaagggg cccaggctga aaggggccct    120
ctgtatttta aaaaaacccc ttttaaaggg ggcccaaaag gggataaaaa aaaggggggg    180

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gcccggggggg caaagggggg ccccgggttt aaacgggaat ttcaccaaac ccaaaaaaaaa 240  
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 aaaccccccc cgggggg 316

<210> 11604  
 <211> 561  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132ac04a1  
 <400> 11604

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 tgagaggtct ggtttggggc aaaagactta cttgccccca gcaatattga gtgtcccttc 180  
 aaacccttgt atggctgaag caaggaaaga agctgagcaa gtgatgtttg gagccattga 240  
 ccagcttctg gagaaaactg ggggtcaaggc taaggatatt gggattttgg tagtgaattg 300  
 cagcttggtc aatcccacac cttctctctc tgcaatgatt gtgaaccact acaagctaag 360  
 agggaatatc caaagttata atcttgggtg catgggttgc agtgctggac taatctctat 420  
 agaccttgcc aaacagctcc tccaggttca tccaaactct tatgccttag tggtgagcat 480  
 ggagaacatc actctcaact ggtattttgg caacaacaga tcaatgctag tctcaaattg 540  
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<210> 11605  
 <211> 329  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132ac04d1  
 <400> 11605

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 acaccttctc aagattaacc atgaaaacct taatttaaatt tcctaatagca agaggtttta 180  
 acttaggaac caatgggtgc cactttgggc acatgaacag gaaactcgtg aatctcatcc 240

atccaaggat ttttctcctt tgctggatta atggctctca atgcacgcca cacagcactg 300  
gtggacttgg acccttgacc caatggcat 329

<210> 11606  
<211> 509  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
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<400> 11606

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cctcctgcag cagcaccagcag taccagcccc tctgcgtctc atccctctcc gtctacgcct 180  
ccagcatcca acaggaccct caccaactgg ttcagacagc actctccctc tccctgaacc 240  
gcaccaagc caccaaaaacc ttcgtggcta actgcaacaa attcagaggc ctgaaaccca 300  
gagagcacgc tgcactcaag gactgcgccg aggaaatcag cgacagcggt gaccgcctca 360  
gccggtcgct gaaggagctc aagctatgta aggttacagg gtgaggactt cacgtggcac 420  
attagcaacg tggagacatg ggtcagttct gctttgaccg atgagagcac tngcggcgat 480  
ggattctncc ggaggcgctn gatgggaag 509

<210> 11607  
<211> 590  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ac05d1

<400> 11607

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aaccaagatc attggtcccc aactagtgtt gtgcagcata gtggttaata agcgagagag 180  
cattgctagt aacctgagca acattgagca tcctagccct aatagagtcc ttgatcttcc 240  
cattcagcgc cttcccgag aatccatcgc cgcaagtgtc ctcacgggtc aaagcagaac 300

tgacccatgt ctccacgttg ctaatgtgcc acgtgaagtc ctcaccctta accttacata 360  
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 cgaaggtttt ggtggccttg gtgcggttca gggagaggga gagtgctgtc tgaaccagat 540  
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<210> 11608  
 <211> 493  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ac06a1

<400> 11608

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 aagatatggg attctgtggc gatttgata tggtatgtgg ttctcttggg gatggggata 360  
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<210> 11609  
 <211> 496  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ac06d1

<400> 11609

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ggccaaaaac taaaccaaac ccttgaccac aacagaaacc cccctgttg cggtttttct 240  
 gcccacaacc cccctgtacc caccocgggc aaaaaaggg gccccttcc atccggcaac 300  
 gccaaaatca aacaaccaa gggccccccc ttcacctacg gaaaaaagaa agaaacaacc 360  
 tgcaccttca agggccccct tggaacaatg cccacttgac gccccaaaaa gcaccagaa 420  
 aaacctatac cgcgcctgca acgacaaacc cctgtaaaaa accaaaacc ccctcttgac 480  
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<210> 11610  
 <211> 511  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ac07a1  
 <400> 11610

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 gagatcaact ttttctgacc ctttatcaac tgggtcaatc acaacaccga cagggtgtca 240  
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 cttcaacacc accctctgag cgtgcacacc cggtcacgtg ctccagcacg tgaggaacac 360  
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<210> 11611  
 <211> 588  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ac07d1  
 <400> 11611

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aatattgaca ccggaata acatgaaaga accaaaatcc cttttatcaa caaatggtga 180  
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 catgcaccac attcttgcac ttgcgttttg caaagtttta caatctttag ttccctttgg 300  
 tcagttttca ttttcaatca agaatcaact tccattgtag aacatccatg cttgctgtaa 360  
 aaatcatgga aaaaatctga ccagtgcaca ccgataaaga ctcttgtttg aaaagatacc 420  
 taagtttctt tgcttactga agaagtgtgc ccagttgagg aagacttgag cagagattgt 480  
 gcagctaata atttgttcct tagcatgaca ttatactcgt acaaattgtt tagattcttc 540  
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<210> 11612  
 <211> 106  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ac08a1  
 <400> 11612

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<210> 11613  
 <211> 489  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ac08d1  
 <400> 11613

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 gtattgccgt tgacatataa ttgacctcaa aaactcactg agcagttgct atagaaaacc 240  
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 aactaaccaa ctctctggc ttaaaccaca agtcaatctc atcctcggca gtctcaggac 360  
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taggctctga attctgagga tctgaggctc caattagctt ttggggccatt ggaaataact 480  
ccttgacct 489

<210> 11614  
<211> 456  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220132ac09a1

<400> 11614

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tgcgagggat gcgtcaagaa gatcaaacgc acatgtcgcc acttccaagg tgtggaaacc 240  
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<210> 11615  
<211> 529  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220132ac09d1

<400> 11615

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taaaacatta ttataatata aaaattctac catatcataa aatttctcta tattaatttt 180  
caataacacg gaatattgat atattatcca cccctcattt ttacacgca ggtcgatttt 240  
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cgtccgtgtg taagagtaca ccgaaaacga aaattaatca ctgattatca catgatggaa 360  
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tacggtagag gtggctgcag aggataaccc tggttcacgt accctggctc cacgtaatga 480  
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<210> 11616  
 <211> 410  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ac10a1

<400> 11616

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 gaatcccaag acagccgtag cttgagctct accgcgcgtc acggtcgctg tcttcacgg 180  
 tgagagccgg taccgatcgc cgggctacgc cgagctctga gacgggggca gaaactgtac 240  
 aacctggcac gccgccggcc agaactcgac ggagttcgag tgcaacagaa tgctgaagcg 300  
 cgccggctga caggagaccc ttgccgacaa gatctaccgg ttctactgga cactgctcgt 360  
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<210> 11617  
 <211> 553  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ac10d1

<400> 11617

gtaaagatta actattatca cgaacgaaac cattaataga aacaaaaatg aaatggtgtt 60  
 agtatcacca ttttgttcgt ctctgaagac aacatatata gaacatatat agatgccctt 120  
 aatgaatcga atgaatcttt caaaatcgca aattagatgt ttgtgaatta attacatatg 180  
 aaaaataatg aagctataat ctcccattat ttctgaatca cagaccata tccaatctca 240  
 gttcagcctg aaagttaatc tctgatcatc atgaatgaca gtatttcacc acaaaatccc 300  
 ggtgatgaaa ctcatgtgcc cctagatttc agacaaatct aagcgatagt ccagtaatt 360  
 ttacgcagat gacacagctt caatggcgct gcctaggggc catgctgcct caaccagggc 420  
 atcgtcgtat ttaactttct tcaccaatgt aatctcttgc catggatata taccaaacc 480

atcaacgagt agtgtatact ggtatataag atccatgcaa agatagggaa ggttcccctt 540

atcaacacga gga 553

<210> 11618  
<211> 489  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ac11a1

<400> 11618

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caatacgttt gctcaaggat aagtaccag accttggtat ctatacagat gttgcattag 120  
atccttattc atcagatggg catgatggca tagttagaga agatggagtt attatgaatg 180  
atgagacagt tcatcagcta tgtaaacaag ctgtagccca ggcccaagct ggagcagatg 240  
ttgtcagtcc tagtgatatg atggatggtc gggtaggagc actgcgtgca gctctggatg 300  
ctgaaggctt tcagcatggt tctataatgt cctatacagc aaagtatgca agttcttttt 360  
atgggtccatt tagagaggca ctagactcaa acccccgggt tggagacaag aaaacttattc 420  
agatgaaccc agctaattac agagaggctc tgactgagat gcgggaggat gaatctgagg 480  
agctgacat 489

<210> 11619  
<211> 570  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ac11d1

<400> 11619

cagcaccaac agagttacag tacgaaatat tctgcagggtg agtgcacact ttcattcata 60  
caatgggttg acaatccaca cgtaaagtta caattaacac caaaaacaac ggccaagtct 120  
ttttctatta tgccttaaa tatattaaat caaacgaggc cataatattt tattatgaat 180  
gtctctctat acacaaacct ccatgtccct cttaaacaat ttacaataac caaaatccag 240  
cagatactgg tattataaac tcttcaacct tctacatgaa caacgcctta cataatcaga 300  
gaacttcacc tcttctctcc acacaaacat ctggcagctt gcagagcaga atatgtgagg 360

atgatatcag caccggccct tcggaggcac atcagtgact ccatcataac cttttcttcg 420  
 tctatcattt tgagagcacc ggcagccttt atcattgcat attcaccaga aacctggtat 480  
 gctgcaattg gcaaaggaga attatccctg agcagcctta tgatatccaa gtaaggaaga 540  
 ccaggcttca ccaagagaat gtcagctcct 570

<210> 11620  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ac12a1

<400> 11620

atgctttgaa gtctcccaca ggagatgaag catacaatga aaatgggttta gtgcctcgaa 60  
 caatacgttt gctcaaggat aagtaccag accttggtat ctatacagat gttgcattag 120  
 atccttattc atcagatggg catgatggca tagttagaga agatggagtt attatgaatg 180  
 atgagacagt tcatacagta tgtaaacaag ctgtagccca ggcccaagct ggagcagatg 240  
 ttgtcagtcc tagtgatatg atggatgggc gggtaggagc actgcgtgca gctctggatg 300  
 ctgaaggctt tcagcatgtt tctataatgt cctatacagc atagtatgca agttcttttt 360  
 atgggtccatt tagagaggca ctagactcaa acccccggtt tggagacaag aaaacttattc 420  
 agatgaaccc agctaattac agagaggctc tgactgagat gcgggaggat gaatcttgag 480  
 gagctg 486

<210> 11621  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ad01a1

<400> 11621

gttcaattat agcttctcat ggaagccctc cgcttcacgc aaaaatgtag tcaagaagaa 60  
 cagcttcata tcaagacaga catcgaatga aggacaaagt ttccttccaa aagaagagga 120  
 aatgaaatgg gtgttccaga aatttgacac caacaaagat ggcaagggtt ctcttgaaga 180  
 gtacaaggct gctgcaaggg ccttggatag ggccattggg gaagctgaag cagtgaagc 240

gttttagggtc atggacactg atgaagacgg cttcattgac ttcaaagagt tcatgaagat 300  
 gttcaatgaa gagggtagga taaaagaaac tgagatcaag aatgcttttc aagtgtttga 360  
 ttccaacggc gatgggaaga ttagtgctga ggagttgtcc caagttctca aaaggtagg 420  
 agagagttgc agccttagtg cctgtaaaaa aatggtcaaa ggagtggatg ggaatggaga 480  
 tggttttatt gacttgaatg agtttacgag gatgatgatg 520

<210> 11622  
 <211> 441  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ad01d1

<400> 11622

ggagctgacg tgaagcacta gcacgggtat tgcttgctg cgcgagctgc taactaggct 60  
 ggggacgccc tttctctctt ttctttctgc tcccttactc atcttggaat actacacttt 120  
 ccacccagag cttttatata aacatatact tctcgtagct ctgctcaacc agtcatccac 180  
 ttcagcgacg cagcactaag cacactacat atcgacaatt gcatgcgaca cttaaatacgc 240  
 cgatgcgtac atttctctag ctgtgtcgtt ttgactgata aatgaggggt gttcctagac 300  
 acgagcgccg ctgggcgtcc gccatgcct tgggaaaagc gaccgtcagc gccggaactt 360  
 tgccgggaac tgagtccaac tccgtcgcgg ccgagattgt ggccgtgact ctacagcgtc 420  
 aagaggacga caccatttct a 441

<210> 11623  
 <211> 416  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ad02a1

<400> 11623

gtcttctgca gaaatttgcg ccatcgtcga gagaagcgtg agagacttct cgtttatgat 60  
 gagagctaag atagtttagt tgtcaagtca taaatcagta tcatcacttt aaatttcatt 120  
 agaagctgtc aaaatgtcac ggaaggggtt gatggagcaa gacctgagta agttggatgt 180  
 aacaaagttg catccacttt ctccagaagt catatctcgg caggctacta ttaatatcgg 240

cactataggt cacgtggccc atggcaagtc aacagttgtg aaagcaatat caggtgtcca 300

gactgtgcgt ttcaaaaatg agttggagcg taacattaca atcaagcttg gctatgcaaa 360

tgcaaaaata tacaagtgtg aagatgaacg atgtccaagg cctatgtgct acaagg 416

<210> 11624

<211> 304

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ad02d1

<400> 11624

aggcaaaggg cgtattgata aaaaaccata tattgaaacc agtgcttggt gaaattctca 60

ctcccagcct gaattcaatc ccaggcttgg atacaacttt tattagaggt acacggggga 120

aacataccca actctcgggtg ggaaacaaag tctgatacat gaatgaaaaa acgtttcttt 180

ctccacctta caaaaagggc tcccaacaat tgccagcctt cccacatata caaaactatg 240

tcagtatctt attcctgctg gggcttcttg gaatcagtg tcaacacatc taggggggag 300

ggag 304

<210> 11625

<211> 455

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220132ad03a1

<400> 11625

catcgtcttc gatgatgaac tgttttcagt tccagaaacc gtatcatcac cacgcgcagt 60

acgtgaagat ggaggagcac aatttcctca gcgcggatga ggcctgcaat ttcttctcgg 120

atgaacaagc accgaccctt caatggtact gtccagaaca gtggagctga gaaaagaaac 180

atggaaatta aaccgctttt agaaattttt gtttgaaggt agaaaatgaa atactgtgca 240

aaagaaaaag agagaacaga gatcaatggc tgcatggcgt ggggtcggag atggaaggtt 300

gattattact actctcgacc gtgcggcagg gggtaatatt aataattatt caatccgaaa 360

gcaaaccatg ctgtaaaaac aaatttccat tcaagtatgg aataacggng tagtacttnt 420

tttataaatg aacagaacca cagcaacggt gtact

455

<210> 11626  
<211> 459  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ad03d1

<400> 11626

agtacaccgt tggtgtgtgt ttttttattt attaaaaaag tactacaccg ttattccata 60  
cttgaatgga aatttggttt tacagcatgg tttgctttac gattgaataa ttattaatat 120  
taccctctgc cgcaccggcc agtagtagta ttaatcaacc tttcatctac gacccacgc 180  
catgcagcca ttgatctctg ttctctcttt ttcttttgca cagtatttca ttttctacct 240  
tcaaacaaaa atttctaaaa ggggtttaat ttccatgttt cttttctcag ctccactgtt 300  
ctggacagta ccattgaagg gtcgggtgctt gttcatccga gaagaaattg caggcctcat 360  
ccgcgctgag gaaattgtgc tcttccatct tcacgtactg cgcgtggtga tgatacgggt 420  
tctggaactg aaaacagttc atcatcgaag acgatgctt 459

<210> 11627  
<211> 416  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ad04a1

<400> 11627

gcaaaacatg tttatcttct cttttgttca cctgagtga ggaagacata ggcatacctt 60  
gtcgtatttg ctgtacatgt cgccattgca atagtaattg ttattgttat tgggggtgat 120  
cgatgagaaa ttatatggag cccttactcc tacttcttc agttcatca tccaccctt 180  
tacctttctt aatctcaaac acactttctt gccatccaaa acccaaactt tctaccatac 240  
tcagttgcac cctacaaaag tcccaagctt ggtgcacaaa tttgagttgg gtcccatcac 300  
tatcacatca gggaagacct aaattggatg cagcgaggcc cataatcaca gcagctgtga 360  
taagaaggaa tgagtttccc ttccacaacg tcatccatag ggacaagaag ctcaaa 416

<210> 11628



<211> 355  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ad04d1

<400> 11628

tttatttttt ttttttttac tacggccaaa tttttttattc cagatactat aaattaatat 60  
 ttatgggggc aaatcttgca ataaaatcac atccttacat acaaataaa tcacaacctc 120  
 aaccatagga tcaaatccgt ccaaaatata ggagatggat accaccatcc attgcgtaat 180  
 gcacctcccc caacaaagct ccaacattat cacatatcaa gccagatgct gtcttatgtg 240  
 aacaccacca ttgctctctt ggacgaccat taggcattac aggaagaagg accattcact 300  
 cattctatcc taccattcga tcaatccaat ttccttgaca catctccaaa agctc 355

<210> 11629  
 <211> 412  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ad05a1

<400> 11629

cctactagta cgtgtatact ctcaacttctt cgtcctacat ctcttggtga ttgcctgagg 60  
 tctacaaaag ttctcttatt ctctactcc tattgaactt tggtcataac acgagacaac 120  
 ccacgtctgg accttccggt gcaatggcca ttagaggccc ctgtgaaatg tccaaatcga 180  
 gcagctgtat agtggtgaag ggagtgaaat atggacccca gatagctact tgactagata 240  
 ggccataggt tgaacctctt ttctctgcag atttacctgg gaaaagatgc tgatgcttga 300  
 agatatggca ttctgaggcg actcggatat gtaatgtgcc actcttgggg atggagcata 360  
 tcgctgtgag acagactgaa tcctatcctg tatgtgaaga tgactacagt ga 412

<210> 11630  
 <211> 275  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ad05d1

<400> 11630

gacatggaac attttttata atcttatata actaaatact ctcggatcta ttgatatgga 60  
 atacgaacag aataggcctt taagatcctc caataattag gcaactgggag tacactgaat 120  
 tctatggtcc taatagtaaa atataaaata tgaatcccca agtgtgaaag aacaatttca 180  
 tagcatatac ttgggtagat cctccaatca agcttactcc accccttttc gtagcattct 240  
 tgcaaacagg gacaagatat aactgacaaa ttcta 275

<210> 11631  
 <211> 498  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220132ad06a1

<400> 11631

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 accaaattat tgtgctagct agctagtagc tgaaataata taaaataatg aaatatggca 120  
 ttcagcggga cccaacagaa atgcagggct ggcgacagaa ctgttcactt tgtcgaagga 180  
 ttatctgccg atggagctgc ttatcacaag aactgcttca gatgcagaca ttgcaatggc 240  
 cttcttgcca taagcactta ctcattccacc gaaggagttt tgtactgcaa ggtgcacttt 300  
 gagcagcttt tcaaggaaac tggaacctac cccaagaaat ccagtcgtc tggaaagcct 360  
 cctctcgagc tgaatagagc accaagcaag ctttctgcct tcttctctgg gactcaagag 420  
 aaatgttcaa aatgcacgaa aaccgtatat ccattggaga agttgaccgt ggaaggcgag 480  
 ttntaccaca gatcatgc 498

<210> 11632  
 <211> 520  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ad06d1

<400> 11632

ataattaagg agagtttttt agaaaagaga ttgctattgt aatccatcat ggattcagac 60  
 aatagaatct cttttttcta ctctgatatc tgattcttaa tacacagaat gaaatacatc 120  
 tgaaatgact gaaggatgcc atgcactttt ggcttgagat agtcatgtcc atgccccaca 180

gaacagagag gcttaaacta ctgattgcta gcaaattatg gaacacataa tactgtaata 240  
 gccctttcgt gggaatgata caaggccacg acccaattaa tcaggaactt caaaatgtcc 300  
 caaatgaaat ggggatttac ttgtagccag aaagatcaat tgtactcaa gacacaagtg 360  
 aagacccccg cttgcaaaaa ttaatgttcc atcaatcaat ctagagctct agctcagagt 420  
 gatcatcatc agcttgttca gcttcctttg atgttgatgt cctgtctggc tctgactctg 480  
 agcgaccatc atcggttgca gtagctttct ccacagactc 520

<210> 11633  
 <211> 385  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ad07a1  
 <400> 11633

cgccaacata cgaagacggt ctcacaggtg ggcacatctg ttacaggagc tgcgaggtca 60  
 cttgtctccg ttccaaagc ctcccatgga cgtgcgaatg gcgctgctag ggggtggttca 120  
 tagagccgaa acatggctcc attttacgga cagagcggcc atgtacatga tcccacttga 180  
 tcagcatgat catcatggag ttaaggagcg cttgctcttc ctggcggagc ttacatgttc 240  
 caagatcagg ttgggccttc atctaagctg gatcgacat tcatagacat taagcctgat 300  
 gaaatgcaga caaggctgac tcatgagatt atatctcccc acgtgcgggc tgggtacaag 360  
 cctgtgggga ttaaaggagg gatta 385

<210> 11634  
 <211> 294  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ad07d1  
 <400> 11634

ataggattaa cagattatca tagggggctt ttttaaggcc cactagccca tattgacgca 60  
 tactacttga aaatgttaat caagaaatca aacctgcacc aattatatag gcttgatcgc 120  
 attggcattg gaccttatac aaaccaggtc acgtactcag gcacagtagt gaattacaaa 180  
 tgccgatgtc gaacagtagc ctccaactcc tcacaggact cattttataa gctaccatga 240

gcctgaggca cataagcaga gtgcatcatt gacaggatct catgcacggg tggc 294

<210> 11635  
<211> 542  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ad08a1

<400> 11635

ctcacacttt caaccccatc caatcctcac atgcatgctg tctctgcaa agtgccaagt 60  
cacataacat ttccattggt accattcttt ctttccatca caaccactta ttaagcctct 120  
gatcctcact ttctctcaca caaaaacaca ctccacatgg atcatcgcaa accattgcta 180  
cccacttgct ctgatgctgg tccaaatcca cacactcgca aggaccttct tctagttatt 240  
tgcggttgct tattactctc ttcccttggt gcctttggag ggtacagggc ctccaacgag 300  
ccgcatgccg acgtggcatc ggcaacatcg aacgatgagc aacgtagtcc gacatcggtg 360  
ccttctccga aatggtaccc ggattcgca ggtgtttctt cccgggtgtc agagaagtca 420  
tcaagcatgt tggttgcggc taaagatgga gcttcgaggc atttccatgg gacaacagca 480  
tgttgtcctg cagagaactg cttttcattt ccaccagaga aaactggatg aacgatccca 540  
tg 542

<210> 11636  
<211> 425  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ad08d1

<400> 11636

ccatatgtaa atatggttag cctaaaatgg gataacatta acatcaaatt tctttgaaca 60  
gattcttttg aaagcatcat ttcccatgat atgataaaat tcccaccaa atttttgata 120  
aacattactg ggcaaaactg aaggaatgag ctttgagcaa gaaccataac cttatgtcgg 180  
ttattcaggg gaggacatta ccactggtaa gtccaaattg ccaacccaag atgtattcca 240  
atcctttggg actatagctc ttctatctcc aattcaaatt tttaactctt ctgaccaggg 300  
gggaatgggc gtttaaagtc aaaattcatt tgccaaactt ttagggaggc tgtcacaggg 360

gcctaggtag cattgatgaa caagaacaac ctagcagctc catagattgc cttcgttgga 420  
taaac 425

<210> 11637  
<211> 137  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ad09a1

<400> 11637

cgcaaacata ccattccatt ctcacaggcg cgcacatccg aatacggcga tgagcagaga 60  
cgggtaccat tgccaaataa ccctaaacga cgttcgagat gagctggtag ggaagggttca 120  
gaacgccaca acatggc 137

<210> 11638  
<211> 319  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ad09d1

<400> 11638

aacatagaag gctagggggg attatgaagg cactaaaact cataaggaag gagagaaaag 60  
aaaaattagg cggaggagat ttccccggag tatggactac aggaatgatg catcgtggac 120  
cagatatgac atggaacagg acatgggttga gggcgcagct gctaaccatg attggctggg 180  
aggtatattc gacaaggagt actcgttggg catgtacggt agtcgaccct aggccagaag 240  
cactgaatcc acagccatta gatgcacagg cgcgtatagc gctggcgaag ctagccaaaa 300  
gaacaggctg aatcctgag 319

<210> 11639  
<211> 512  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220132ad10a1

<400> 11639

gacgcaggca acgtgcattt tcccatagca aggacacat cagccggtt tcgctgccc 60

gtcgttttcgg atccatcgtc atcgtttttg tcttcttctt ccattagttt agttgagaat 120  
 caatcccaag acaccgagct ggagccttcg cccgtcaccg tcgttgtctt caacggtcag 180  
 atccgggtacc gatcgccgct ctccgccgag ctcttcgacg gcagcagcaa ctctccgccc 240  
 tcgcacgccg ccgaccagca ctccgccgag ttcgagtcca gcaaaatgct gaagcgcccc 300  
 ggccgccagg agtccctcgc cgacaagatc taccggtttc gcgggacact gctcgtcgtc 360  
 gcgatcccg cctcctcat cacattcgct ctctacgtca tgccgtccag cacctccaac 420  
 gagtacgtcg gagactacgc cctcgttaac cggataatgt cccccgaaa gagatccgtc 480  
 ggctcctacg ccgtcatctt cgacgccggc ag 512

<210> 11640  
 <211> 588  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ad10d1  
 <400> 11640

aaagattaac tatgatcacg aacgaaacca ttaatagaaa caaaaatgaa atggtgttag 60  
 tatcaccatt ttgttcgtct ctgaagacaa catatataga acatatatag atgcccttaa 120  
 tgaatcgaat gaatctttcc aaaatcgcaa attagatggt tgtgaattaa ttacatatga 180  
 aaaataatga agctataatc tcccattatt tctgaatcac agaccatat ccaatctcag 240  
 ttcagcctga aagttaatct ctgatcatca tgaatgacag tatttcacca caaaatcccc 300  
 gtgatgaaac tcatgtgccc ctgattttca gacaaatcta agcgatagtc ccagtaattt 360  
 tacgcagatg acacagcttc aatggcgctg cctagggggc atgctgcctc aaccagggca 420  
 tcgtcgtatt taactttctt caccaatgta atctcttgcc atggatatat accaaacca 480  
 tcaacgagta gtgtatactg gtatataaga tccatgcaaa gatagggaaa gttcccctca 540  
 tcaacacgag gaatagtgga tttggcattc tcaagttctg ttggcatg 588

<210> 11641  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ad11a1

<400> 11641

gcgtcgagct cgggagcgac ggaaatcgtg tggacgtgga aggagttgtt gaagaagaag 60  
 gaggaatcgg tcgctaagag tccgagccgc ctccgcttcg cttggacatt ggtcgcattg 120  
 agctgcggaa cgcacgcttt gcatattatg cacgtcttgg ggattgacat tgctcacgga 180  
 cccgtcatgg agattcttca taactcatac ctgaaaggcg gctaagctgt ggggcctcta 240  
 ttgggaccag gaccagagtt actctctgat ggcctaaacg catgcaggaa ggggtcgcct 300  
 gatatgaact ctctcgtggg attcggatct gaagctgctc tcatcattag ttcgatctcg 360  
 ctacttagcc ccggcctggc atgggaggca tcatt 395

<210> 11642

<211> 489

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ad11d1

<400> 11642

attatctatt tttttttttt ttttctttgt ggatttggtt tttttttaca ccaaaaagaa 60  
 aatctggtga tgacaacata aatagaacat atatagatgc ccctaatagaa tccccggaat 120  
 ttttcaaaag gtgaaaaaaaa atgccagtgg accgctacgt acgaactgaa ggaagctatt 180  
 atcttcaaaa tggctgaatc acagacctat atccacaggg agggaaaccg gaacgaaaag 240  
 ctttgaccgg gatgactgac agtggccac caccacaggg cggatgatgaa aactacgtgc 300  
 cggtagacaa aaggcaaaac taagcgatag ttcccaggcc caaccacgaa aggacacagg 360  
 tcccctggcg ctggctaagg gccatgctgg ctaaccaggg catgggccga aaaaactttg 420  
 ttcacccatg aaatcactgg ccatggataa ataccaaacy ggtgaacgag aaccgcacac 480  
 tggggggaa 489

<210> 11643

<211> 492

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ad12a1

<400> 11643

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 atccttattc atcagatggg catgatggca tagctagaga agatggagtt cttatgaatg 180  
 atgagacagt tcatcagcta tgtaaacaag ctgtagccca cgcccaagct ggtgcatatg 240  
 ttgctagacc tagcgatatg atggatggtc ccgtaggagc actgggtgca gctttggatg 300  
 ctgaaggctc tgagcatgtc tgtattatgt actatacagc aaagtatgcc agttcttttt 360  
 atgggtccatt tagagaggca ctagactcaa acccccggtt tggagacatg aaaacttattc 420  
 atatgaacct agctaattac acagaggctc ttactgagat gcgtgaagac gaatctgaag 480  
 gagctgacat tc 492

<210> 11644  
 <211> 487  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae01a1  
 <400> 11644

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 gcttctgtc actgggtccc gaaatgccaa atggtggtct tcagccttcc acaatctcac 180  
 agccatggtt ggtgcagggtg tctcagcct tccatttgcc atgtcaaata tgggctgggg 240  
 ccccggtgct accgtgctta tcttgctatg ggttatcacc ctctacaccc tatggcaaatt 300  
 ggttgagatg cacgaaatgg tgccaggga aagatttgat aggtaccatg agttgggcca 360  
 gcatgccttc ggagacaagc taggtctctg gattgtgggt cccaacaag ttgttggtga 420  
 agttggcacg tgcattgtct atatggttac tgggtggcaag tcattgaaga aagttcatga 480  
 taccctt 487

<210> 11645  
 <211> 420  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae01d1



<400> 11645

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 ggccgcctac ttggcgcgaa tatcttaagc aagcgggtgcg tgcactgggc gctcctcggc 180  
 tgccccggcg tctgaaaagg aacgtacgct agtcgcctgt ccaacctaaa aggcgtacct 240  
 cacatcgcca cggcgatct ttttcgacac gaactagcct tctctgacct cctcttttcc 300  
 aagttctctc cttcttcttc ttcaatttga attaaactaga tcaattctcg taacgcaaatt 360  
 gggggcgggg acattgaaag tcctgcgtac ggtgcagcgc gaagacagaa aaatgggggg 420

<210> 11646

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ae02a1

<400> 11646

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 accatcatat tgtaattac ttccaattaa tatgggctgt gctatcatta accttctcct 120  
 aataattttt atatatgaag ccagcgccga cacacaaact gcaacagAAC cagaagtggc 180  
 cagaacttca caagacttcc actactgctg tgattataag caggctagag gaaactacgc 240  
 agccaacagc ccctatcaga ccaacctcaa cacccttttg tccactctca cttccaatac 300  
 agatattgac tacggtttct acaatttcac aaccggcgaa aaccgagaca aagtgtacgc 360  
 cattgtgctg tgcagaggag atattaatcc agatgaatgc cgtaactgcc tcaaactttc 420  
 cagagccaat ctcacagagc tctgtccagt tcagaaggat gca 463

<210> 11647

<211> 372

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132ae02d1

<400> 11647

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catcacttta tcttttacct ccaccatcat caataccaat ttttttctcg ttatttatgt 240  
 ctttatctga tggtttgctt attagaatat tagtctctga cacaagttta agtgtactgt 300  
 ggccagttca ttggacaatt gtagatatat ccctgctaga tctgttgat ttcatgtggc 360  
 tcttaacaag ttgtccagct gcaatagcag acatgagcga tagctccccg gcgaggactg 420  
 aaccggctac aatggtggcc agtagcctag aatttgacc cgagattct ttgttggcac 480  
 ccttgacacc aagtaaatta agacatgctg actgagatgc gagttgtgtg ccacctccac 540  
 agtaccaacc ttaatggagg gcatgggtcac ggaaacatg 579

<210> 11650  
 <211> 324  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae04a1  
 <400> 11650

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 gaaaccata tcttggctac tgaatacgcc ctgaggggtgc acctgactga tacagatcga 180  
 tgagccggtt tgcttgaag tgactcaca atgtaactct ccggcgcacc ttagcaaata 240  
 gggatctgtg agaccctaca tctaagcctg attacgaaac cagagaacat caggctgaga 300  
 atcatgggaa gaggcagagg gaaa 324

<210> 11651  
 <211> 101  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae04d1  
 <400> 11651

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 gaaggagcac aacgaacaca tacgcgaatc tgcattgaca g 101

<210> 11652  
 <211> 555

<212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220132ae05a1

<400> 11652

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tgtcactatg gctggatcag tacatgcaca caacgttggt gttagtcttc ttagcaaagt 180
tggaactggag catttgattg ccagaaatga agatgaatat gttgaattgg ctgagcagtt 240
ggcctctgac atttccgcac tacaaaattt gagaatgagt ctgcgaaatc tcatgtccaa 300
gtcccctctc tgtgatgggtg caaaatttat cctaggtttg gagtcaacat acagaaaaat 360
gtggcaccgg tattgtagag gagatgttcc atctttaaaa cgcttggaat tgttacanga 420
agttgctact ggtgacctgt caaataagaa ttctgagcca acaaggattg catactcagn 480
ggaggacagn tctgggtctg tcaaggcaat ggatataata caattcctgc atcaaagctt 540
aacatacaca ctgcg 555
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<210> 11653  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ae05d1

<400> 11653

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cttaaaatag attttaaccc ggcaatctta aatatatcca ttctgttct ttatatgggg 120
gcattgcaca attgacagat aaaaaaatg ccatgaaaca aattgataag ctattaacaa 180
ctattataat cgagggggga aatatgccac agaccacggc taccaaaaga atgtgtaaca 240
gaatgcacct caaggtagct tcacctcttg gtcttggaac actctgcacc gaagggggct 300
ttataactaa cctgctgcct atagcccccg gcccgaatgg tactctattc aagttaactt 360
tgtgctgtgc tgcggctgct ttccagcttt ttccagtagc aaccatgcaa cctagtagta 420
ccactattgt aacggaattc cacctgaatc actacaaaag gattcttgga t 471
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<210> 11654  
 <211> 99  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ae06a1

<400> 11654

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cgggtactat tttcccctaa ccccaatcca tgtccaaat 99

<210> 11655  
 <211> 137  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ae06d1

<400> 11655

attaataggt ttaacataga aagctaaacg ggggtttgac agcactttca ctaatatgta 60

atcaacataa ttaaaaaaga gaggaaggag gttcacccgg ataattgaat ataggattca 120

tggcatattt gaccaga 137

<210> 11656  
 <211> 105  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ae07a1

<400> 11656

cgcaaacgta ccactacatt ctcacaggct cgaccatccg gtcccggcga tcagcggaca 60

cgggtacat tttcccctaa ccccaatcca tggtcgaatg aggct 105

<210> 11657  
 <211> 95  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ae07d1

<400> 11657

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<210> 11658  
 <211> 127  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae08a1  
 <400> 11658

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 cggggaccgg tttccctctt ccctatgcga tgtacaactg cgggtggtag gagaggctca 120  
 taacccc 127

<210> 11659  
 <211> 185  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae08d1  
 <400> 11659

atataattat catattaaca taagggggta ttttaaagca cataaaccaa aatataactca 60  
 tcaaaattaa aaatcctaac aaagataatc caccggcaca cttaaaataa aattttctccc 120  
 atattcaaca caactaattt tcaccaatca catgtttcat acacagccat gaatcacaat 180  
 ttatg 185

<210> 11660  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae09a1  
 <400> 11660

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 cgaggtctat tgccccttaa ccttaaacc taccctatg ctacttggtg gaccgtttct 120  
 gaaaccgaa acatggcgcc gtcttcacgc ctgatgcgtg cttatgccac ttctcaatgg 180

aggggcctgc ttgttacgta gttatgcagt gcgatgactt tcggggcccag gttgctgaat 240  
 ctggaaccac gttggaacta actcgaagcg tggtcacgga gattgaggac tccactgggg 300  
 tgacctatgc cacagttata ctcttcacc aatctcgtcc cactcccgag cttatagaga 360  
 ccgtcatgcc taacggtaat gtgttaaaga agcagcat 398

<210> 11661  
 <211> 83  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ae09d1

<400> 11661

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 tacaaaagaa ataaccccg caa 83

<210> 11662  
 <211> 532  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ae10a1

<400> 11662

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 gaagctgcat gaggactggg gaactacacc ggctgcaata gacagttggt tgacagttgc 180  
 agaccaatat gatatccagg ttaacataca tactgacacc ttaaaccgaat ctggatttgt 240  
 tgaacataca attgctgcat ttaaaggaag aactattcat acttaccaca gtgaaggagc 300  
 tgggtggtggc catgctccag atatcataaa agtatgtggt gagaagaatg tgctaccctc 360  
 atcaacaaat cccacacgtg cttatacaca taataccata gatgagcatc tcgacatgtt 420  
 gatggtctgc catcatctta ataagaatat tccagaagat gtagcttttg ctgcatcaag 480  
 aataagagct gaaacaatng ctgctgaaga tattttacat gacaaggggg ca 532

<210> 11663  
 <211> 144

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae10d1  
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 ttggggggcac cagaaaacaa ttcttctttt tgggtatcca aaaattgaaa aaatatgggc 120  
 atgctctgtt aacgggtttt gccc 144

<210> 11664  
 <211> 422  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae11a1  
 <400> 11664

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 ataatacgag gtactacgaa atcctcggcg tctccaagaa cgcttcgcag gatgatctga 180  
 agaaggctta caagaaagcc gccattaaga atcacccga caagggcggt gatcccgaga 240  
 agtttaaaga gctggcgcaa gcttatgagg ttctgagtga ccctgagaag cgtgagatat 300  
 atgatcagta tggatgaagat gcgcttaagg aaggaatggg tgggtggcggt ggccatgatc 360  
 catttgatat cttttcatct ttctttggcg gtgggagtcc ctttggatca ggtggaagta 420  
 gt 422

<210> 11665  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ae11d1  
 <400> 11665

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 ctacttattt ttaagcccca ccctacagtt atggaacatc aacagtttta tcatcatatc 180



atcattttca tcaattcgga atttagcttc cacacaaagg catttcgggg gggccccctg 240  
 tacccttttg gccccaccag gcatggcatc atcctcaaaa tatgcctcct gagcttggtg 300  
 ggggttcctc caagactcct ccccatgtt gacatcatgg aggggaattt cctcacattc 360  
 atccagctcc atgtttggca attgggaaaa aggctttggg ggcaaaacag cctccaaggg 420  
 cttaacttga cccgggttta aagaatctgg aaaccccaca gggaagcgaa tgtaaaagtt 480  
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<210> 11666  
 <211> 521  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220132ael2a1  
 <400> 11666

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 ggctaaatct gttgcattag aggtttttga cttgttgaag aaagcctttg gaagagatcc 180  
 tgggcatctc actgctgaca gaagtttccc aatgggggtt gtacagctca atgcaatgcg 240  
 tctagctgac atcttctctg atgattcaaa ctttcgatct tacatgatac tttgttttac 300  
 taaagtcttg acagcaataa tttcgtctc ccatggagat tttttatcct gttggtgttc 360  
 atctaattc tcagagacgg aggaggatgc angtattgaa tatgatatat ctgctgcagt 420  
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 cctaaatccc tacagcatgc ctaaggcttc ttatgcacat c 521

<210> 11667  
 <211> 504  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132af01a1  
 <400> 11667

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 aataatTTTT atatatgaag ccagcgccga cacacaaact gcaacagAAC cagaagtggT 180  
 cagaacttca caagacttcc actactgctg tgattataag caggctagag gaaactacgc 240  
 agccaacagc ccctatcaga ccaacctcaa cacccttttg tccactctca cttccaatac 300  
 agatattgac tacggtttct acaatttcac aaccggcgaa aaccccgaca aagtgtacgc 360  
 cattgggctg tgcagaggag atattaatcc agatgaatgc cgtaactgcc tcaaactttc 420  
 cagagccaat ctcacagagc tctgtccagt tcagaaggat gcaattgggt ggtacgagga 480  
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<210> 11668  
 <211> 396  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132af01d1  
 <400> 11668

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 actgactggc gctaccctaa aacataacac agggaccaac agtttgcccc aagctgccaa 180  
 tgaatcgatt tataagtgaac aactgaccct atgccgttgt ttacatacat tgaaatgcat 240  
 agaagtgagg cgtattaaag gaattcagcg ctgggatact cttcaacagc ctgattggcc 300  
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<210> 11669  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132af02a1  
 <400> 11669

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ctcgcctcact aagcgcagtt ggaagccacc tccgagcatg gcaaaaggcc cagtcagagc 180  
 caccgtttct atagagaaag agaccccgga ggccaatcgt cccgaaacgt ttctcagagg 240  
 agtggacgag gccagtcctt ccacttcggt tcggggccgc ttcgagaaga tgataaggga 300  
 ggcccaggac accgtgtgca gtgccctega ggccgctgat ggtggggccc agttcaagga 360  
 ggacgttttg tccaagcccg gtggcgccgg tggcattagc a 401

<210> 11670  
 <211> 368  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af02d1

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 aagaaggctg ctttctgttt tcttacatgg gattgaggag ttacttgatc aaagaaccat 180  
 ggttgccatt aggtatacta caaaccacgc ctgaacattt gtaattttct gcattttcac 240  
 gctttacgcy gatgactcta gcaaaatacg tgatttacia tccacctaata ccaacaagct 300  
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 tattattg 368

<210> 11671  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af03a1

<400> 11671  
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 ccgacaaacc cagaagctga agaacaccgc caccaccgat tcgcagactc ttctgcctct 180  
 ctacctcacc aacgccctct tcttcgcggt gttcttctcc gtggcctact tctctctcca 240  
 ccgctggcgc gagaagatcc gcaccgccac tccctccac gccgtcacc ccgcccagac 300

cgccgccatc gtctccctcg tcgcctccgc cgtctatctc ctcggttct tggcgctgc 360  
 ctccccgcgc tccctcgacg agctctccga cgacgagatc atcctcaagg aagactcccg 420  
 cgccccgggc ccgtgcgcgc cggcgctgtc ggactcctgc tcaactccca caac 474

<210> 11672  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132af03d1  
 <400> 11672

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 tgaatgcca ccaaaccaca cgcttctggg gagctggatt tgcccatgga agatgccaac 180  
 catcacttta tcttttacc ccaccatcat caataccaat ttttttctcg ttatttatgt 240  
 ctttatctga tggtttgctt attagaatat tagtctctga cacaagtta agtgactgt 300  
 ggccagttca ttggacaatt gtagatatat ccctgctaga tctgctgtat ttcattgtggc 360  
 tcttaaccaa gtgtccagct gcaatagcag accatgagcg atagctcccc gcgaggactg 420  
 aaccggctac aatgggtggc agtagcctag aatttgcacc cggagattct ttgatggcac 480  
 ccttgacacc aagtaaatta aaacctgctg actg 514

<210> 11673  
 <211> 514  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132af04a1  
 <400> 11673

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 tattcttatt cttaccaccc ttgttgctgt ctctgggtct tacgttttcg ggtctgctgt 180  
 gggatattca tctcctgctc agactggaat catggatgat ctaaatcttg gtgtggccaa 240  
 gtattcactt tttggatcaa tactgacaat tggagcaatg attggagcca ttataagtgg 300

tagaatagcg gattatgcag gtcgacgaac tgctatgggc ttctctgaag tattctgcat 360  
 attgggatgg cttgtcatag cattctcaaa ggttggttgg tggctttata ttggaagatt 420  
 gttggtggga tatgggatgg gccttctatc ctatgtggta cccgtttata tagctgaaat 480  
 acaccaaga atcttcgagg gggattcacc acag 514

<210> 11674  
 <211> 613  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af04d1

<400> 11674

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 acaggttcaa cccaacacaa aatctttgca tcataaacgt gatcaagctt gtttcataaa 180  
 atctttaatt taattcataa tctataatct ggcacttagg aaattgtttc tggattaatt 240  
 atgcatgcaa ttttgctact gggcatgcc aaattcatgt ctttgttgaa tatggattca 300  
 gagatatatg cttgaacttc ttctagagtt ctcccttgtc tctgggtacta gttttgccac 360  
 gaatagaatg gtgaagccac atatgatgga gaatatgaag aaagttcccg ctgaactcca 420  
 actcatgagg aagttaaaag cgtatgatac aatccaagaa cacaaccagc tagccaaatt 480  
 cacaagactt ccagccgagc ccttcacatt aatgggaaaa atctcagaca ttataaccaa 540  
 ggggattccc cccatgccaa gcaagaatga tcctgtatat gccaatcac caacatgcgt 600  
 gagaatggaa ctt 613

<210> 11675  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af05a1

<400> 11675

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cgacgtctcc tcttggtcc accgccaccc cggcggtccc ctccccctcc tcagcctcgc 180  
 cggcaccgac gccactgacg ccttcctcgc attgcacccc ccgaactccg cctccctcct 240  
 tctccccggc ttgccacccc cccacctact ctcggtaccac tccgtctccc ccgcctcctc 300  
 cgactaccgc aagctcttct ccgacctctc ctctctcaac ctcttcaacc gcaagggcca 360  
 caccatttcc atgctcctct cccttatact cgtccttttc cctctctccc tctgtggagt 420  
 cctgctctct gacagcacgt gcgtgcacgt gctgtccgga gcattagtag gcttcctctg 480  
 gattcagagc ggctggatag gccac 505

<210> 11676  
 <211> 613  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132af05d1  
 <400> 11676

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 aagcatgaag tgctgagcat tactaaacca catatgacaa gtgccagtag tttctttctt 180  
 acccatttcc aaaaggagat tagccaatcc cctgccaaaga caatgagtaa ccgttgcaaa 240  
 tcaattattc tctcttcaaa accaaggaca cctacgggac aaaacttata tgcagtttct 300  
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 ataatgatag aaaaactcca attctgatag gagaacaaca ccaagagcac ctatgcaact 420  
 atatataact ttcattcccta cctaccaatg cacctccatc aaaccatcaa tgacagcaaa 480  
 accacaggaa gctccactca aatccccctc atccatgagt gttaacagcc taccaaacca 540  
 agttcttggg aaccggcttg gaaccatctc ttgcctgcaa agcagcattc cctagagtct 600  
 gaatcgtcag cac 613

<210> 11677  
 <211> 94  
 <212> DNA  
 <213> Glycine max  
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<400> 11677  
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<210> 11678  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af06d1

<400> 11678  
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<210> 11679  
 <211> 109  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af07a1

<400> 11679  
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<210> 11680  
 <211> 213  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af07d1

<400> 11680  
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 tttgaatcac actatgaagt ccggctctgc ttttaaccat gacctacttt gtaccatatt 180  
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<210> 11681

<211> 346  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af08a1

<400> 11681

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 gaacgccaaa acatgggtcc tccataccgc ctggaggggc atatgcaaga tccaagtgga 180  
 ggagcctgcg tgtcatgtag tcaatcacag agtggactta cgggccccagc ttgcataata 240  
 ggcgatcact atggcaccac tacatagagg ggtcacgcag actgaggaac tcaaccgggt 300  
 gaaatgcgga ccaggcagac tcatactata atattgagcc acgtac 346

<210> 11682  
 <211> 97  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af08d1

<400> 11682

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 aaaaagtcga gcaaggaggt tccacctgat tatttaa 97

<210> 11683  
 <211> 370  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132af09a1

<400> 11683

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 cttaaaccba aaacatgcct cctcctatag gcctgctagt ggccacttc atggtgaccg 180  
 ttgaccagcc tgtgtatata gtatctatac acaaagagga cctacatgcc cagtttgcac 240  
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<223> Clone ID: jC-gmf102220132af10d1

<400> 11686

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acggaccaga ctgacaccaa aaaaaaaaca gacacaaaca aaaccccaaa cctaaaaaaa 180
ccataaaaca aaatcgcaaa a 201

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<210> 11687

<211> 486

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132af11a1

<400> 11687

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ggctaaatct gttgcattag aggtttttga cttgttgaag aaagcctttg gaagagatcc 180
tgggcatctc actgctgaca gaagtttccc aatgggggtt gtacagctca atgcaatgcg 240
tctagctgac atcttctctg atgattcaaa ctttcgatct tacatgatac tttgttttac 300
taaagtctg acagcaataa tttcgtctc ccatggagat tttttatcct gttggtgttc 360
atctaatctc tcagagacgg aggaggatgc aagtattgaa tatgatatat ttgctgcagt 420
tggatggatt ttggataata cttcaccgga tgtaagaaat gctacaaatt tggaattcaa 480
cctaatt 486

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<210> 11688

<211> 528

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220132af11d1

<400> 11688

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cacagttcca catattgtac aagaccctac caacattttt gctgccatt atgggctttg 120

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002220.03250

gggtattatc ctaaactaac ccattttcaa tgggtgaaca accctgggtt tcaacatagg 180  
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 tggctttctc agccaaccaa tctgctatcc cttcagctaa tgtttatgga aataaagaac 300  
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 taaactcatt caggctcgaa tgcaaaaact ctgtttgaac ccataaacac ctttatgact 420  
 cctaacttag tttcagcctc tgcaaatgtg ttgccagtgg cttctgatgg atagggtagc 480  
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<210> 11689  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132af12a1  
 <400> 11689

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 tgaagcatat atcattcctt acctcgatgt agatgcccgc tccttacgac ctttctacgc 120  
 gcctatgctc gtcgctctaa atgctatcga cttgacgtag aacgcctttg gaggacatcc 180  
 tgggcatctc actgcatgac agcaagttgc caatgggagt gtgacaggct atcgaccga 240  
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<210> 11690  
 <211> 423  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ag01a1  
 <400> 11690

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 ccagatctcc tatgctgagc tccatgcatg cttgtagctc gaccctgaca tgaagggcgc 180  
 ctgctaaacc tgcaccacga ccaacatggg gatgggttcta ggagagatca caaccaggc 240  
 cagcgtggac tatgagaaga ttgcgcgcta cacatgccgg aacattggct ttgtctactg 300

atgatgatgg ccatgactct gacaactgca ggggcctggt cagcattgat caaccgagcg 360  
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<210> 11691  
 <211> 333  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220132ag01d1  
 <400> 11691

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 cactacgtct ggggcccggcc tttttttttt tttttctctt aatgttatgc ttttctcctc 120  
 tgcaatagaa caggtatgcg ggcgggtggaa tgagatcacc acagttttct agacttaaag 180  
 ttgaaggaaac gttccttttag gttgcaacat aaaacaaata cacggcctga aaggacacaaa 240  
 tagcagttcc aaaatgaagg gggggccttg ttgacagtct tcccctcata cttctccctt 300  
 ttgccttcca ggggtacgtaa cacagactaa atc 333

<210> 11692  
 <211> 430  
 <212> DNA  
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 <223> unsure at all n locations  
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 <400> 11692

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 cagaaaaatg gcatgcgctc tataatttga gatcattaca tttttctagc ctaaaacttg 180  
 aaagaacatt tttttttgcc tcatcatata acatatacat ggcctgaaag aaccccatc 240  
 gagttcccaa aaaaatgggg gaccttcctt aaaattttcc ccaaaaaata caccgatttg 300  
 agttcgaggg aaggaaacat agagaaaact ctaccaacca gattataaga agcccggttg 360  
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ccccttgagg

430

<210> 11693  
<211> 390  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220132ag03a1  
  
<400> 11693

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ttatccgctt gcttcactta gctcaagagc gtacaattca ggcaaaggcc ttgaagtcgg 180  
agtgtgtgtt aaggatttct taggagttgc ttctgtcttg actgaagaaa tggaggtata 240  
tggcaaatct atggttgacag gtcctgcaaa tgttattttt ctgtcaagta ttttgggcca 300  
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aaacatgtat cgctgcaagc taactgggct 390

<210> 11694  
<211> 636  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
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<400> 11694

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acatctgcct tgaatacaaa agcaaaaaac tggcaaaaaa acattatcaa ggtttaggag 180  
agtttacttt caagggaaaa tcaactttcaa tctccaata aagagggaaa tgtatgcagg 240  
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tatttgttca atcattgcca ctgtccacag gctcttacag tggaagacaa attcatttgg 360  
tcttatactt caaaattcaa actatattga aattgggtat gcaaactttt tcaacttttc 420  
ctagtgtgtc ttgatcatcc accaaaactt gttgagagca tcataactgt cctttcctca 480  
actgttacat ctactccata ccaggtacca gctgctaagt ctcatcataa ctcgatgttc 540

ttacagccac atanaatggt gcctaaaatt cagaagtggg atatctgagc atgaacagct 600  
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<210> 11695  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ag04a1  
 <400> 11695

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 gagtggtagc ccgaatggcc ccatctcagg gaccactcc tctccctcct caaaaccatc 180  
 cctctccctc tcccgcttca gctcctcgtc cccggtgag gcaactcccg cctctccgag 240  
 cacctctacg acgcccggca caccgccatc accaaccatg actttctcaa ggtcgtcatc 300  
 ggagacatgc tccgcccga cgtccgagc cgccccctca tgcgatggcg cgttatggac 360  
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<210> 11696  
 <211> 375  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ag04d1  
 <400> 11696

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 ccgaaaaaaa accccccggg gatagtttca ccccggaatt ttccccggga aggggtcccc 180  
 aaaaaccaa accctaaac ggtgaaggca ccccccttt aaaaaaggg gggaagcccc 240  
 cccaaatttt cccccgggc taaaacccc ccaaccag aacccaatt aaaaggacaa 300  
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<210> 11697  
 <211> 557  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
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<400> 11697

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 cttcttctga gatttgctga tgattcgtac atcgagagct acataagcac cattggagtt 240  
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 atcattattg tttatgatgt gacagatgaa gagagcttca ataatgtgaa gcagtggctc 420  
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 ggcataccct ttatgga 557

<210> 11698  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ag05d1

<400> 11698

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 caaaacaact tcggacgtgg gccacctggg gacatttagg aaagaaaaca gcttccaggg 180  
 aatggggtcc ccaccgaaga ggctccgagc ccctacagtt tcggaaaaga actcccaccc 240  
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<210> 11699  
 <211> 542  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ag06a1

<400> 11699

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 cttgatcaga gaatttcatt aaagaataac ataagtgggg acgaagtcac tccaactcga 180  
 aagaaaagaa atgttgggaa caaaattgag aagattgaag aacttattcg ggaatattca 240  
 gtatcaactg attttgtcag tatggattgg aaaagaatga gaatacctcc cgttctttct 300  
 tcttcagagc atgcttggtt gttcaaattg atgcaaccta tgaaggcact gcttcaagtg 360  
 aaagaagatt tacagcagga gttgacaaga gaacctgcag atggtgaact agctgatgca 420  
 acatacatga gcattacaca agtaaggaaa gcaatagatg ttgggtcaagc tgcaagaaat 480  
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<210> 11700  
 <211> 554  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220132ag06d1

<400> 11700

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 atactatata actgggtaag gtgtttatat acattagtcg tttatacaac ataacggcga 180  
 agataatcca atctagctga atgcttgagc ttcataagag ccttgacttc gtgctttcta 240  
 accatttccc tagatatatt caagttccca gcaatttctc ccaatgttct gtcacccttg 300  
 ccatcaagtc caaatctctg tctgatcacc aagctctcct tcggcttcag ggaatcaagc 360  
 acatcatcaa gagcaagcct tagtagagca ggttgtttcc tattatcacc attaacacca 420



tcatcatcaa cgatccatt aatgaactcc tcttgctgg ttgtatgtct cgagttcaga 480  
 gaaagaatgg attttgatgc cttaattacg tcatggatc tttcagggga tatatgaact 540  
 ctntctatta tttc 554

<210> 11701  
 <211> 623  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ag07a1  
 <400> 11701

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 ccatttctta accttcttct tctatttcgt cgttcgcagc tccgcaacct aaatcttagc 180  
 gcctcatctc actcaccatc tccttcgtcg cgaaatacaa aactgctag tgttcgcgat 240  
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 aactacaaga ttgtggctgg tggaattccg ttcttcatat tcacctgctt gcattcgctc 540  
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<210> 11702  
 <211> 607  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ag07d1  
 <400> 11702

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 gatagattat taaataatgg atcaaattat aataacacct attgagattt aatctaatta 180

cacatacacc cccgttgtct gaagacatta ctttgaccct tgtgtgatgg tgtaaaca 240  
 acgttaactt tcaaagttca ttacgaaaa tgcctcctc agatatccgg aaatccaaaa 300  
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 actaacatat tcgagaaggt gccgatcaag ctcaaatgt cgagaaagaa gcccctttgt 420  
 aattttaggg tgaaaatatg cagcttcaaa atccaactca ggaaagcggg caacttcagc 480  
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 <211> 549  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 ttgatgattg canggacctc ttgcaatccg ctatcgagag cctccaactc agcattgaca 480  
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<210> 11704  
 <211> 485  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ag08d1

<400> 11704

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 agtgcgtagag gaacacggag agctttcaac cagtcgcttc caccgttggc tccagcctgt 240  
 aggaactggg caggggtgaa ttgggtagct tcttcgctgc taataagacc acggtaaccc 300  
 ttccacttga tccttccgtt aacgttagca ccaggcccat cgttgttgta ttcagcatag 360  
 tacaaggtgt cttcgaagtg ttcaccggcc catgggcacc attctttcgg ggtgaaggag 420  
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<210> 11705  
 <211> 578  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ag09a1

<400> 11705

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 ttttggtgat cagttgaagt gtggaaaaaa tcttaagcta aaggcaattt ggggaagctgg 240  
 aacaatgggt tctgtttggt gttgtttgag ttttgatgat tttgaagatt atgtaaatcc 300  
 aaatagtcct gtatatagga actgtgtgtg tctcagttgc ttgatacaga accttttgat 360  
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 ggcagcatct ataacttcag cagcatcact cgataattct ctatctgaca tgtatcgctc 480  
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 ctagtttcag gcgtgagaag ggtcangtca ttcaaagt 578

<210> 11706  
 <211> 704  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ag09d1

<400> 11706

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 tcatttacac aagatttcca tactaataat tatgatagtt cttgtgtgtt ctctcaccgg 180  
 ttttgtggac attgcgggat aactttttta cacacacaaa cacatagtgg ggcattacga 240  
 tatgacacct cacatacata tgggttacag ggaaaacttt ttaatacctt actattacat 300  
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 catgccctca gttgcctgac ttcattccaca acacagacct tgtaatcaag tgaaagtcgt 420  
 ttcattcgaat accatcacct ttccacagac aggacagttg tcacttctct ccatccactc 480  
 ataaatgcaa ccaaggtgaa aatgatgaga gcattttgtc attatctttg gattctcttt 540  
 agtgtattct tcaagacaag ttggacagac atcctcctcc tctgatgatg catagacaag 600  
 accaactcca gttgaatatt ctgttgattg aagtcttagt gaggacttag aacggtattc 660  
 ctttgatcca gcttcacagg cactttcctt ccatttgtct cctg 704

<210> 11707  
 <211> 387  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ag10a1

<400> 11707

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 acaaagccga agttctctct ggcgttcata agtatgagaa gtatcatgtc agctatggcg 180  
 gtcaagagga cgagagaaaa gctaattata ccgatatgga taatgaatac tatgatcttg 240  
 ataccaggtg ttatgagtgt ggctgggggg aatctttcca ttttgcaccc agatggaaag 300

gagaatctct tggagagagc atcagaggac gtgaacactt ccttgctctc acaacttgga 360  
 ctgaagccag ggcaaaatgt tctggat 387

<210> 11708  
 <211> 414  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ag10d1

<400> 11708

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 acactatacg acgaaccctc aagaatcact agggacactg ggccaaaacc aatcttagct 180  
 cgtgattcac ccgatcacia tatccgcaac tgatgacaac agctccctat atgggtcaacc 240  
 aatttaattc caggacgaat caagcttccg ggccaagaag acttacattg gtgcgaaaat 300  
 atatgcattc actgcgtaaa cgaggccagc tgcaggctat tataggaaag acttgaaccc 360  
 ttagactacc ctttgagacc aggccaat acttcagaac ctggaccatg tttt 414

<210> 11709  
 <211> 331  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ag12a1

<400> 11709

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 gtcttgatga ttgctgatga aactcact gtgttagcta gaacgccaat gatgctagct 180  
 tgtgagtggg atgaagaaca ccagaagt ctgatactac ggaaagcatt gtgtggagga 240  
 ggtattccct ctctgtcatt gcttgcatac aaagatgcaa tgccttgcatt actacctgta 300  
 cagaatggaa gtaccttaga tggaaatagc a 331

<210> 11710  
 <211> 358

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ah01a1

<400> 11710

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 gctgctggct ctgatcttcc agagagtgtt gccacgtgct gcccacccc tacacccatg 180  
 attgtgccat ggaagagcca gtacagtcac cagcattctg tgtgagacat ccgaaccatc 240  
 tggggaacct gtccttttag gacaaaagac gcggaacctat gacagcatgt tggatgaatgc 300  
 ctccatgact acctatggac gtacaatgga gaacgttcat gatccaccat catgaaca 358

<210> 11711  
 <211> 393  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ah01d1

<400> 11711

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 gagaaggggtg tgggcctatg aaagacgttg aggtgctttg cgcccttctt tatgtattag 180  
 ggcacctata aactggactt tctcgaatct tacgcgagag gagcccctgg ggattgacta 240  
 ataacttcca acaaaaagaaa ttgagaatgg agaccgtctg ttgccaccac aaataaaaaca 300  
 tacatcccct cgatgcgggg taaagaataa aaaaaagctt tcccaatcct taatccggca 360  
 aggctaagt aaccggcaag gaaagccttt gat 393

<210> 11712  
 <211> 247  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ah02a1

<400> 11712

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002220"CTT560

gccaatgaat atttttcttt cccacaaaaa attcatccac ggacctttct ctgcgttagt 120  
tctcacctgt tcttatacaa aatagtctaa actatcccag aaatatggcc ctggatgttg 180  
cttgctaaaa gtggcatacg gctgcacttt aaatgaaaac acgtgccgtt attcaaaaga 240  
gtgcatac 247

<210> 11713  
<211> 352  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220132ah02d1  
  
<400> 11713

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aaaggggacc gggggcacgc tgaagaactg catgaaataa tcagggttgg agctatggga 120  
ctgaagctgc atgaggactg gggaactaca cccggctgca ggatactagt gttcgacagt 180  
tgcagaccta catgatatcc aggttaacat acatactgac tccttagacg aatctggatt 240  
tgttgaacat acaattgctg catttaaagg aagaactatt catactgacc acagagaaaag 300  
agctgggtggg ggccatgctc cagatatcat aaaagtatgt ggagagaaga at 352

<210> 11714  
<211> 382  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220132ah03a1  
  
<400> 11714

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ggagacttca cgagcaaaga gaactgggac aacttcttca cctccgcgg cgattccttc 120  
gagtggtagc ccgaatggcc ccatctcagg gaccactcc tctccctcct caaaaccatc 180  
cctctccctc tcccgttca gtcctcgtc cccggctgcg gcaactccc cctctccgag 240  
cacctctacg acgccggcca caccgccatc accaacatcg acttctcaa ggtcgtcatc 300  
ggagacatgc tccgccgcaa cgtccgcgac cgcccnctca tgcgatggcg cgttatggac 360

atgaccgtca tgcagttcga gg

382

<210> 11715  
 <211> 474  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ah03d1  
 <400> 11715

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 cccaaaaaac tcaaaaaggc cccccaaaaa ggccattcaa ttccccccca caaaattttc 120  
 cccaaaaaaa acccccccg gataccttaa ccccgaaatt ccccccgga agggccccca 180  
 aaaaaccaac ccctaaacc ggggcaccaa cccccctta aaaaaagg ggaaccccc 240  
 cccaaatttc cccccccctt tttaaccccc ccaccccag acccccatt taaaggccaa 300  
 cccttggggg aaaaccccc ccccttaga aaaaccggc ttccccctca ccccccaaa 360  
 aggccccggc cccaaaaaca atccccggg ggaacccag gtccccctaa aaccggggc 420  
 ctttttggc caccaaaaag ggtcgcccc ccccgggg ttcaccccc ccca 474

<210> 11716  
 <211> 398  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220132ah04a1  
 <400> 11716

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 caaacctaac cagtaaaaat ggtgaccgtg gaggaaatcc gcaacgctca gcgttcccat 180  
 ggaccgcca ccatcttggc cttcggcacc gccacgccgt ccaactgogt ctccaagcc 240  
 gattaccctg actactactt ccgcattacc aacagcgaac acatgactga tctcaaagaa 300  
 aagttcaagc gcatgtgtga aaagtccatg ataaagaagc gatacatgca cctgacggag 360  
 gagtttctga agagaacccg aacatgtgag agtacatg 398

<210> 11717



<211> 555  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220132ah04d1

<400> 11717

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 ttattgatca ctcttaaatt cactagtcac cgcattcagca tgatttatcc ctccaaggga 180  
 aactgtgaa gaacaacggt ctcaacggtt agaccgggcc cgaatccgaa tagcaccccc 240  
 cactctaacc cttctccagt ggtactcttc cttctctcct tagacttctt cctcatttca 300  
 tccagaatga aaaaaacaca cgcgcttgac atgtttccgt actcactcag cacatgccgg 360  
 gtggactgga gtttctccgg cttgagccgg agcttctcct cgacttgatc gaggatcgcg 420  
 ggaccaccgg gatgtgcat ccagaagata gagttccagt cgctgatccc gatgggctca 480  
 aaagcttcaa cangactctt ctcaatgttc ttcgagatga tcccgggcac atctttcaag 540  
 aggtggaacg tgagt 555

<210> 11718  
 <211> 474  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ah05a1

<400> 11718

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 cttgatcaga gaatttcatt aaagaataac aaaagtgggg acgaagtcatt tccaactcga 180  
 aagaaaagaa atgttgggaa caaaattgag aagattgaag aacttattcg ggaatattca 240  
 gtatcaactg attttgtcag tatggattgg aaaagaatga gaatacctcc cgttctttct 300  
 tcttcagagc atgcttggtt ggtcaaattg atgcaacctt tgaaggcact gtttcaagt 360  
 aaagaagatt tacagcagga gttgacatga gaacctgcag atgggtgaact agctgatgca 420  
 acaaacatga gcattacaca tgtaaggaaa agcatagatg gttggtcaag ctgc 474

<210> 11719  
 <211> 615  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220132ah05d1

<400> 11719

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 atactatata actgggtaag gtgtttatat acattagtcg tttatacaac ataacggcga 180  
 agataatcca atctagctga atgcttgagc ttcataagag ccttgacttc gtgctttcta 240  
 accatttccc tagatatatt caagttccca gcaatttctc ccaatgttct gtcacccttg 300  
 ccatcaagtc caaatctctg tctgatcacc aagctctcct tcggcttcag ggaatcaagc 360  
 acatcatcaa gagcaagcct tagtagagca ggttgtttcc tattatcacc attaacacca 420  
 tcatcatcaa cgatccatt aatgaactcc tcttgtgtgg ctgtatgtct cgagttcaga 480  
 gaaagaatgg attttgatgc ctttaattacg tcatggatc tctcagggga tatatgaact 540  
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 gctttctgaa tttct 615

<210> 11720  
 <211> 546  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ah06a1

<400> 11720

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 agggcaaggt ctggcttgat ccaaataag tcaatgaaat ctccatggcc aattctcgac 120  
 aaaacataag gaagttggtt aaggatgggt ttattatcag gaagccgact aagattcact 180  
 ctcgctcccg tgctcgatga atgaaggagg ccaagagaaa ggggcgtcac tctggttatg 240  
 gtaagcgtaa gggatcaagg gaggaaggc ttcccaccaa aatcctttgg atgaggagga 300

tgcgtgtcct caggcgcttg cttcgcaagt acaggggaatc aaagaagatt gacaagcaca 360  
 tgtaccatga catgtacatg aagggtgaaag gttatgtttt caagaacaag agagtcttga 420  
 tggagagcat acacaagtcc aaggctgaga aggcaagaga aaagacattg tctgaccagt 480  
 ttgaggcgaa gcgtgccaaag aacaaggcta gcagggagag gaaacaatgc tcgaggagg 540  
 agcgct 546

<210> 11721  
 <211> 575  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ah06d1

<400> 11721

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 gtaactaaaa gactaaaacc aacagaaaga gacgtgacaa aaattacttg agcacggtaa 180  
 ctgaagatgc ccacatagat aaagagccgc catccaccaa atctctgac acacactcac 240  
 ttcttggatt tcttcagtgc ttgagctggc tgggatgctg ctgcaggtgt agtagtttgt 300  
 gctgctgatg gcctctctcc tggaccttgg gccaaagcgt cctccctccg agcatttttc 360  
 ctctccctgc tagccttgtt cttggcacgc ttcgcctcaa actggtcaga caatgtcttt 420  
 tctcttgctt tctcagcctt ggacttgtgt atgctctcca tcaagactct cttgttcttg 480  
 aaaacattac ctttcacctt catgtacatg tcatgttaca tgtgcttgtc aatcttcttt 540  
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<210> 11722  
 <211> 547  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220132ah07a1

<400> 11722

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catataccaa cctggctaca tatctttcat agggatgaa tatttatatg tctatatcat 60  
 aaggccggtg caatcatgcg ggtcttacat aaatgtcggc taaggaaatt atttcgtgtg 120  
 ttcctctcat accgctgggtt ggtgattaca tatgtgtggc ggtggacgtc aacaagaagg 180  
 gctaggatcc tacacgtaaa tctgatgata aatatgtctg aggcattgtga cgttacactg 240  
 atgaccaaatt gctgtgccag taatccacaa gatacgggaa gggcttgtac gccgctgatc 300  
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<210> 11725  
 <211> 407  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132ah08d1  
 <400> 11725

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 gtactgaaat gatgatgcct tggatttgtg attgtgtatt ttcgaccaag cctttatgaa 180  
 cctaagcacg tgcggcacac ggagagcttg caagcagact cttacaccgg tgtctccagc 240  
 ctgtaagatc tgaacagggg tgtattgcag aagctcttat gaggctaaca tgacctcaag 300  
 tgtcccttcc gatagagcgt tacgttcacg atatcaccag ttacattgac gcagtatgaa 360  
 gcattgaact atgcgtcttt gaacggttca cctgcccattg ggcacca 407

<210> 11726  
 <211> 471  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220132ah09a1  
 <400> 11726

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 agatagtgtg gtgcttttgg aggatccttt tctcaaagct tgcattgtaac actatctaca 180

ttttggatgat cagttgaagt gtggaaaaaa tcttaagcta aaggcaattt gggaagctgg 240  
 aacaatgggt tctgtttggt gttgtttgag ttttgatgat tttgaagatt atgtaaatcc 300  
 aaatagtcct gtatatagga actgtgtgtg tctcagttgc ttgatacaga accctttgat 360  
 tgtgtgtattc ttcaatatcc cgtagagggg atgcacattc aattccttca tctattcaag 420  
 gggcagcatc tataacttca gcagcatcac tcgataattc tctatctgac a 471

<210> 11727  
 <211> 630  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ah09d1

<400> 11727

catcattaca aagtttccat ctaaaattag atattctttg tttcttcacg gttttggaca 60  
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 ggaaactttt cataacttact atacatgaca gacacttaat atgtagtatt cacaatgtct 180  
 ataagcttat attcttccat gcctcagttg ctgacttcat ccacaacaca gaccttgtaa 240  
 tcaagtgaat gtcgtttcat cgaataccat cacctttcca cagacaggac agttgtcact 300  
 tctctccatc cactcataaa tgcaaccaag gtgaaaatga tgagagcatt ttgtcattat 360  
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 tgatgcatag acaagaccaa ctccagttga atattttggt gattgaagtc ttagtgagga 480  
 cttaaaacgg tattcctttg atccagcttc acaggcactt tccttccatt ggtctcctga 540  
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 gacttgaacc cttttaacgc cttgaaacta 630

<210> 11728  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ah10a1

<400> 11728

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 aattctgggg tgatttgcct ccatgtaact aataatttgt aaatttggat tgtagatggt 180  
 catatttgat tcatagcaact tgctttgacc cttt 214

<210> 11729  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ah10d1

<400> 11729

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 catttacaac tatatataca aaaatcactg agagacagcg gcatttcagc agctgatgtc 180  
 gaagtatttt ggatttgaag ggaaatgata ttcc 214

<210> 11730  
 <211> 374  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ah11a1

<400> 11730

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 taccctatga gagacgtgga aagttgtaca tgatcaatag agttgagcaa tgatggtaga 180  
 tgggtaatga gatgagggag aggctgcagg tctgaatctc taaactgaca tgtgtggcag 240  
 aactatcatt tgtcgatcat aaattgcata caatggcgca agaccctact acctacatga 300  
 actgcataga atctcctgag accttatttc ggtgtttcat gctgagatct tcacactctc 360  
 agacagagtc catg 374

<210> 11731  
 <211> 541  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220132ah12a1

<400> 11731

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ccataaaatc atccctccta gaccctctca ataacctcca tgactgggac ccctccccct  180
ccccacatt gtccaactcc aatccccaac acccatatg gtgttctctg agagccatca  240
catgccaccc caaaacatca caaatcacca ccctagacct ctcccacctc aatctctccg  300
gcactatctg cccccaatc cgccaccttt ccaccttaaa ccaccttaac ctcaagtggaa  360
atgacttcac cgggagtttc caatacgcca ttttcgaact aacagaactg agaacactag  420
acatcagcca caactccttc aattcaacct ttccaccggg tatatcataa ctgagattcc  480
tcaggcactt caacgcctac agcaacagct tcaccggacc tctccccaag agttaaccac  540
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<210> 11732

<211> 414

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220133a01d1

<400> 11732

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caaacttatt acctgcactt gaatactatt gaacataatg gggtttctgt cattgaagaa  180
ccacctttgt catattcacc acaggaatgt ggacttggac acctgacact atacagtatg  240
ttactgagag agaagatatt ttcaacggat acgtgttata gcaaatacaa tgatctatca  300
aggatgacat ctaaataact aaagaaatgg ggatcacgaa aggggatcaa actaaaggat  360
cttgatatcc aagaggaaga gattgatatc tgtgtacatc ttcatgccaa aact       414

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<210> 11733

<211> 344

<212> DNA

<213> Glycine max



<223> Clone ID: jC-gmf102220133a02d1

<400> 11733

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aagttgcttt aaagttcaga ccttggcgaa aactgcataa ggagaacaat atgctctaca 180  
aacataaata ctaactttac gtctgaacac accttcagaa atgtccctga actaattgaa 240  
ctcgaagttt tatcatcata attcggttcc acataagcaa gggaagggat ccaaatcgtc 300  
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<210> 11734

<211> 407

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133a03d1

<400> 11734

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acaagaacac aaagcccaca tactcacttg tacgatgtta actcgtaaag agggaagaca 180  
ccaatgtgtc tgagatagcg attacgtatg actataatat catttgtggc agatcctctc 240  
aataggctaa aactgagatc ataatatctg gatgtaactg ttctttctgc agctctatag 300  
gtggaactgc aatcgtgata ttcacgcgta cctcaactaa agattaactc cacttccatt 360  
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<210> 11735

<211> 379

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133a04d1

<400> 11735

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cactgtcaga gcaatccgaa aggaaaaaaaa gagaaaaaac atagccaact ccgttccgca 180  
 tgatataaaa gtttaataca cctcctccat tttgctgccc tgaggatcag tttcagcctc 240  
 ctcctccagt gggggcatat aagcatcagc ttcagctgca tcctcggcga tgctcagtcc 300  
 aagcttcaac attgtgggga tcctgtttcc aaaagtgttg ggttcgtcaa ggctgaaacc 360  
 acaagtgaga agagcagtc 379

<210> 11736  
 <211> 361  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133a05d1

<400> 11736

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 gggatgctct ccctttaaaa ggaaaaaaat gatgttacat tacttctacc agataatgaa 180  
 acaaattaat ttcttgcaact ttaagctttc acctgcatat cttagacgtc cttaagggta 240  
 aggtatatat gcggaaggag gacaagtatt tgccaatgtc caattaaaga cttgcaacta 300  
 tcgaactctg actgcatctc aacatagagt caacctacca tgttactcta ttgctagtgt 360  
 t 361

<210> 11737  
 <211> 288  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133a06d1

<400> 11737

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 accttgggca gaatctggaa catcggaacc gggtcctttt ttttggctgt taattgaccg 180  
 ctaagcctta ggcgtgaatt tttggaatcc gtgaaaccga aaggggagcc tcacgaggaa 240  
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<210> 11738  
 <211> 372  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133a07d1

<400> 11738

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 cagcagcgag acattgttct ctgaatgaag agagaacctg gtttgaaagg atgaagatga 180  
 catcggacta tagtagacgg aactataata gggcgctatc acaaggatag tacaacactg 240  
 aaccagtcac tcaattattc gagaaggaaa gtagaggcga ttgacagtgc aggacatcct 300  
 gcagggtgac gactgtcctc ttatgctgct ttggctagac gcttttcttc ctccattctg 360  
 gctttgatga ac 372

<210> 11739  
 <211> 106  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133a08d1

<400> 11739

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 ttttattctg aacagcgttt cgatcgggaa acccatcttc aaacaa 106

<210> 11740  
 <211> 547  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133a09a1

<400> 11740

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 ggatataaaa cctgctcctt caaccaaaga caatcaatta cagaatatca ttaagcttgg 180

agaaggactt ttgaaggaac cagaagatgt tgtttagat aaagaaggga ctctctatac 240  
 agctactcga gatggttgga ttaaaagatt gcgcaggaat aatggaaaat gggagaattg 300  
 gaagcatata gatagtcata ctttgctagg aatcgcaaca gcaaaagaag gtggtctcat 360  
 tgtttgtgat acttccaagg gtttgcctca gggtacagaa gaagatgggt ttagtggtct 420  
 tgtttcacac gtaaattgggt ctcagtttaag gtttgcagac gatgtgatag aaggctcaaa 480  
 cggaatgta tatttttagtg ttgttagtac aaaatttgat cttcaagatt ggtatttgga 540  
 tgtgtta 547

<210> 11741  
 <211> 320  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133a09d1  
 <400> 11741

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 tctgctacat gtgcttggtg taaatcatac ctatgcatca cgggatgctt ctttcgcttg 180  
 acccaagctg aggctcacgt tggttcaagg aggggtaaac gtgactattg tatgcactat 240  
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 actccacagg tgtagtcaca 320

<210> 11742  
 <211> 579  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133a10a1  
 <400> 11742

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 aacccacccc gccaaacgtg gtcgtggaag acctaaaaga ataacttcag ataagtcacc 180  
 agctgtgggt atctctccag taacttctgg aactgttgaa gtagacacgc agttacagaa 240

aggaattggg tctggacatt tagcatcatc aactcctgat tctgttgctc attctgctga 300  
 agttgtaggt gtgaatgcac cctgcaaca gtctgatccg ggagtttctc ctaactcaca 360  
 gcctgtcatt cctatgcctt ctattccacc aaattctcag gtagctgctg ttctgtttc 420  
 tgtacctatt caagcaagag gacaaggag gaaaagtcac ggtggtgaag gaattagacg 480  
 tagagggaag aagcaggtca tgacttcac tccaatcccc tgctgggtct gtgttcctga 540  
 tctaaggtta atgagaaatg ggaagataca ttgtcagtc 579

<210> 11743  
 <211> 206  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133a10d1

<400> 11743

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 acagtgaatc tctgatgaa ttctgggcct gaggactcat cttaggatcc ctgaccagaa 180  
 cagcctcagg aacaacaggt atcact 206

<210> 11744  
 <211> 587  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133a11a1

<400> 11744

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 aggccgttgt cccctggat tactgatata ttgttggtt caccagttgg tattagaagt 180  
 gactatttcc gatggtgcag tgggtgttatg ggtaaataatg ctgcaggaga actgaagcct 240  
 ccatcaaccg cttcttcccg tggttctggg aagcatcctc aacttgtgcc ttcaactcca 300  
 agatgggctg ttgccaatgg tgctggtgtt atattgagtg tttgtgatga tgaagttgct 360  
 cgcaatgaga ctactacttt aacagcagct gctgtccctg cacttttgct tctcctcca 420

acgacagctt tggatgagca tcttggtgct ggattaccag ctctggaacc atatgctcgt 480  
 ttatttcata gatattatgc aattgctact ccaagtgcta cacaaagact tcttcttgga 540  
 cttctagaag cccccccatc gtgggcttca gatgcacttg atgctgt 587

<210> 11745  
 <211> 306  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133a11d1

<400> 11745

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 ttacagcgtg tctcggtact gtacaagaca tggctatcga gagcagactc acaagcaagt 180  
 tcaagtgaa acttagttta gctacagtac atacatgata caaaatgagc tatctataaa 240  
 catactagaa ttatgactgc agctcttttg aacaggacta gcagaattat gctgatttgc 300  
 aaaccc 306

<210> 11746  
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 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133a12a1

<400> 11746

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 gcgtccaagt ggaattggcc cctaatttcg agatgggtgt ctctaataga actcctgaat 180  
 tccttaaaat gaatcccata ggaaagggtc ctgtcttgga aacgcccgat ggtccagtct 240  
 ttgagagcaa tgccattgct cgttacgttg ctogactcaa gggtgacaac gctttgttct 300  
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 tcgatgctaa tattatgaaa ttatacctac caagacttgg atttgcccca taccttcctc 420  
 cagttgagga gggtgcaa atctgcattga agagagcatt tgaggccttg aacactcatc 480

ttgcttccaa tacatacctg gttggccatt ctgttacct tgctgatatc ataacgacgt 540  
gcaacttgta tttaggattc agccagct 568

<210> 11747  
<211> 290  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220133a12d1

<400> 11747

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ggccccacg cgggaaaaaa gaatggcac ccgaggggtg actacaaaag aagaccaggg 180  
gggctcaaaa agaagccctt aagaaagagg gaagcgaagg gaccgataga aggccagaa 240  
aaagtgagga atgcgaaagc tggcaaaaaa gctggggcca cggccgaaaa 290

<210> 11748  
<211> 386  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220133b02d1

<400> 11748

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attacaaggt gaaaaaccca ctgaacataa agggttcctt tgcattgatc cattgccgaa 180  
ttctgaataa acaggaccat ggggtcttca accatagatc cataactctac tgaaaatcac 240  
acctaaaatt ttgtcacagc actaatttta ctggaagttt tagccttttc attgggggtcc 300  
tcctgtgcaa cttgaaaggg ccaaatacatt actgccgatg aagctagaaa attttgtttt 360  
caaatttggt ttaactcacc tttaac 386

<210> 11749  
<211> 490  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220133b03d1

<400> 11749

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tgtgtgacac taatctttct tattggcctg cccaaactca aaaacattta tggtcaccaa 180
cttcttcaaa tacatcgcca aagctaaatt aaaagaattt aaccagtcag tatcaacatc 240
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ttttgcacat attccttcat tccatgacat ccctgatgat actttacttc cacacaactt 360
tgacttacc ttccaaaaga gtaccaaagt ccctccttac tttaagccct aaaaaaatg 420
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tttttttttaa 490

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<210> 11750

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220133b04d1

<400> 11750

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gccaaacttg agcctagggg tgatattaaa tgcaaccaga cttgattacc aatcattaac 180
cgagctgact cctcaatatt atgctatgca caattaacac atgggtgccg ccactaatca 240
ggtgattaac atgacattat tttaatgtgt gtttttgcac atgatcaatc tgtttacttg 300
aacagaaatc gtactgctaa ggccatattg gaccttggtc actctgctga gaataactca 360
ttatgctatg atcatcttgc attcaagaca tttgggggtga atggatatgg aattgattcc 420
atggctagtt tttttctgga ttatggcttt acacaaaggg aagagttgag gtttccaatc 480
aaaatgttga gggc 494

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<210> 11751

<211> 452



<212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220133b05d1  
  
 <400> 11751  
  
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 caacatagag aattttaacg tttagtcata acccatgaat gctatagcat gcaaactgat 240  
 gaaaattcat tccgatattg tataaccac aattcattct gataagaaat ctcttctatt 300  
 tagaggatgc acagctgcag caatgttcta ccgcagggtg aatttttttg caattagtgg 360  
 ccggacatca tcaacaccaa ccaagctctt caagaacgga agtgataata gcagctcttg 420  
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<210> 11752  
 <211> 390  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220133b06d1  
  
 <400> 11752  
  
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 caaaactgca acgcgtgagc aagcacctg cgcaccttca aaacatacac tgttggggac 300  
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<210> 11753  
 <211> 401  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220133b07d1

<400> 11753

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 caacttcac aaccaatgaa ttaaataatc ggtccacaac ctcagatccg aggtcagaag 180  
 catcaaccta atactctaac catcttgat ataggcagct catgtccttg accacaagct 240  
 catctaccat agagtctccc attccactcc aatctgagat ctccttgac acatctgacg 300  
 acaaccatgc ttggctttgc accatctcaa accctcggat ccacatttaa gatcctagcc 360  
 ctacataacg cctgcatgac aaatgcagac attcactcac a 401

<210> 11754

<211> 135

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133b08d1

<400> 11754

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<210> 11755

<211> 540

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220133b09a1

<400> 11755

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 ctcccaacat gaatcctaata agtctcatc ggacttcccg aaaccgtaag aagcggcccg 180  
 atccaagccc acaaggcgtt gtcagcccag cccggctcac attatccccc aaacccaag 240  
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aacttttgac ccaaacgacg ccggatccac cgccgcagac ggaaatcgtc gatcagaagt 360  
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 atgcaggcta ttcgatgttg gtgatgtctc cacctcctag ctccgttccg ttaccggctt 480  
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<210> 11756  
 <211> 418  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133b09d1  
 <400> 11756

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 cgctaactct cgcgacatga accctaactct gtctcatcgg agtccccgaa tccggatgat 180  
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<210> 11757  
 <211> 590  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220133b10a1  
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 ctcccaacat gaatcctaata agtctcatc ggacttcccg aaaccgtaag aagcggcccg 180  
 atccaagccc acaaggcggtt gtcagcccag cccggctcac attatcccg aaaccccaag 240  
 tcaaaaacaa gccgcagcag caactcgtca tgggtcaggt caaaatactc aaacgcggcc 300  
 aacttttgac ccaaacgacg ccggatccac cgccgcagac ggaaatcgtc gatcagaagt 360

taactccgca gacggaaacc gtcgaaaaaa aggacttaac ttcaatcgta gatggtttat 420  
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 tcatcactaa gaagattgcg gttgttagtg acgccacgag cgactngcgg aaaatgttac 540  
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<210> 11758  
 <211> 585  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133b11a1

<400> 11758  
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 tttcctgatt tcctcaaaac aacaacacgt ttaattttca tctccttctt tttctatcct 180  
 attcctctcc ctattattat tattgttaca tctttttctt cttcctctga taaaaagaca 240  
 ccatgagagg acaggaagat cagcaatcta gggttttctg tgagctctcg gctctggtct 300  
 tcaaccttct ccggtcaccg tcgatcgtgc cggagcctcc ggcgaggcgt tcgccggcgg 360  
 gggcgcagat tactccggcg gggttcgcgt cgctactgct agggatttcg gtggcgctga 420  
 tgctgtgtgg atcggtgact ttcttcatcg ggttcatgct gatgccgtgg gttctcggat 480  
 tggttatggg gttttacgtc gctggcgctg tttcctctct ctccgttctc gggcgttcta 540  
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<210> 11759  
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 <213> Glycine max

<223> unsure at all n locations  
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tgtaaataac aagagaagcc atatccacaa aagcctgata tacatgactc ctgcttctag 180  
 tgtgataagn tgagcaatct tcatagttct atgggcagca tgagcaggct ggcacagaac 240  
 cagtatagta ctgggtcaatg cgatcattga tctctcgata taagtctcca ctc 293

<210> 11760  
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 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 tttcttgatt tcttcaaaac aacaacacgt ttaattttca tctccttctt tttctatcct 180  
 attcctctcc ctattattat tattgttaca tctttttctt cttcctctga tacaagaca 240  
 ccatgagagg acaggaagat cagcaatcta gggttttctg tgagctctcg gctctggctt 300  
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 gggcgcagat tactccggcg gggttcgcgt cgctactgct agggatttct gtggcgctga 420  
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 tggttatggt gttttacgct gctggcgctg tttcctctct ctcngttct cggcgttcta 540  
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<210> 11761  
 <211> 291  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220133b12d1  
  
 <400> 11761

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 attcttggtg ctggctatct gtaaataaca agagaagcca tatccacaaa agcctgatat 180

acatgactcc tgcttctaga gtgataagtt gagcaatctt catcgttcta tgggcagcat 240  
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<210> 11762  
<211> 476  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220133c01d1

<400> 11762

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gctactaggt ctcgggcgcc ctcttttttt tttttttatt tttttggcga caaaagcaca 120  
gaatttaacc aaggggcggg gacaagatca attaagaact tatcctgaat gctgctttaa 180  
tttcaaaata aaaaaaatgt tttctcagga gtaagaaatg caacaatttt tgaattgcat 240  
tactgatgag cctcattcaa taatgctata accgatactt cgtatataac actattcata 300  
aattattggt caccaatata atcaatggct acttttcaaa tgcaacaagt tcctcaccta 360  
cctcatgaat caggatcacc atgggacagt tcttagcgag cacgcccact gacagcaacg 420  
tgtgacccca tgcaagttat agtcattccc aaaagatatt gtatgcaccc caattg 476

<210> 11763  
<211> 430  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220133c02d1

<400> 11763

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aaaacctgat tttctgcaaa cattaaatgt ctatagccaa ctataaaaaa aatgtaaacc 180  
atttattcat gcttaacaca aaactgacca aaaataagge tctcaaattcc aagattcttc 240  
cctacttggg ccattcaaaa tctacettac acccaaataa catttttttt acttgcccag 300  
tcattaaacc ccattcgaca tgaactttca ctcccatca taaaaattat cctccgccaa 360  
atagatagtt gccaccctg caaccaactt aacctttctt ttctaataaa tcaacttctt 420

aatggagtag

430

<210> 11764  
<211> 371  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220133c03d1  
  
<400> 11764

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aatactactt cttccaacca gaaaaaatcc ccatttatt gcctttaaaa aaccacaatg 180  
aaaaaggtcc gaaaataaat tatctaaatc tctttctcat atcccacaaa cttcatgatg 240  
accctctaac catcccggtg tctccaacgc actaaatcca ttttaatacat gttttccccc 300  
tcactaaata tcatccatca tgcttacaac acaccctctc ctttaataaaa tcttcctaca 360  
ctttttattc c 371

<210> 11765  
<211> 447  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220133c04d1  
  
<400> 11765

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attaagcaat ttttttctac ctgtacctgt aaaaaaaaga gtcccatttg ttcttgaata 180  
gcttccttca aaaggacttc tgcttcccca gggaatgtct aggaagaaga tatgatttct 240  
ttgaattgag gttttattgc gtataagtaa gcacgtaact caacaagaaa tttccttacc 300  
tgtccaattt ctaatgaatc aagataacca ttcattccat tataaatagt tattatatgt 360  
tcttccacgc gaagacgagc tgattgggat tgtttaagca actcgagcaa acgttgacct 420  
tttgctaatt gattttgagt cgcttta 447

<210> 11766

<211> 237  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220133c05d1  
  
 <400> 11766  
  
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 acagtcaacg gaaatagtct ggaatataaa acagacaagt gtatagcata ggcaaatcta 120  
 caggagagac cttggagata caaacgagca tagcgtaa at gcacatggca gacctttgat 180  
 tcagatcatg agagatgaac aaaagcattc aaaggcccat tggttttccc gacgaac 237

<210> 11767  
 <211> 377  
 <212> DNA  
 <213> Glycine max  
  
 <223> unsure at all n locations  
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 cagtctatta taaagcttca agtcttaa at catgtggtga cagtatatat gtgcggttgt 180  
 acaccagata ccgaaactga gcccaatagc tatctggcac attaaagcca ttctcaaact 240  
 tctaaaaggc ctataaccg gtccagggtc tcctaaacca gaatgaatct gaaagcactc 300  
 agtaacgggt aatacccagt tcttgacagt gcatgctctc atgccaaggc ccaattattc 360  
 acagatcgtc actagct 377

<210> 11768  
 <211> 257  
 <212> DNA  
 <213> Glycine max  
  
 <223> Clone ID: jC-gmf102220133c07d1  
  
 <400> 11768  
  
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 aatttgtaa cttgggctat tgcaaggaga ataccccgaa attaataatt tctatgttga 120



ggagtgcctag tgatctgtct atgcagaacc ctaatttagg ctataacgtc ttttcctctc 180  
 atcagctaca ggtgatgggg gtgttcggaa gagaaggcca aaaccatggg ggcatgcatc 240  
 aaattgcaga taagcat 257

<210> 11769  
 <211> 229  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133c08d1  
 <400> 11769

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 gtttgttatt ggatgggttt tgaatttgca ccgactggaa ccctgaggcc ggggagtagc 180  
 caacgatagc tcctcaactg gtcacttggt ccttcctttg atgcaattc 229

<210> 11770  
 <211> 359  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133c09d1  
 <400> 11770

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 cacatttggt caagatctca aggcgataaa agtcatcaat attgtacact taacagcaac 120  
 tcaaacattg tcagatgaaa aaaaaaactg atgtaacaat cgcgtatgca tacagatctt 180  
 gaaaagtcac gcgctgggtca ttgtatttat cattgcccac tgagacggat atggccgcag 240  
 gctaggatct catggaaaat ttgaacgata aaggctttca gagctgagga tctcttgcat 300  
 ctcagtctcc catgggtccc cattttcaag cagcttgtcc tggatcatata aaagctgct 359

<210> 11771  
 <211> 546  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133c11a1

<400> 11771

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gcaggcaagg aggaaaaaga tgtcaagagc tcaagatgga atactgaagt acatgctgaa 120  
aatgatggag gtttgcagg cacaaggggt tgtttatggg ataattcctg agaaggggaa 180  
gccagtgact ggagcatcaa acaatcttcg tgaatggtgg aaggacaagg tcaggttcta 240  
tcgaaatggt cctgctgcca tagtgaaata tcaagctgat aatgcaatcc ctggaaagaa 300  
tgatggatgc aattccattg gtccaactcc acacaccttg caagagttac aggatacaac 360  
cttgggttct ctctgtcag cacttatgca gcactgtgat cccctcaga ggagattccc 420  
attagagaag ggtgttcctc caccatggtg gccaaactggg aatgaagaat ggtggcctca 480  
aattggtcta cctaaagatc aaagccctcc atcttacaag aaaccacatg acctaaagaa 540  
ggcatg 546

<210> 11772  
<211> 325  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220133c11d1

<400> 11772

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catgtcacag gcgttcttat gtgctggcaa ggagcaacat gaggctaaca gctaaagaca 180  
gacttctgaa gggcttgctg atggtaacac ccgtgagcta ggcacccagg attgagtacc 240  
acctgaccag tgctgccgag acatcaatgt ctgtagcgtc ctacacgatt acatagtagg 300  
agaagggcat gaactggctt tagag 325

<210> 11773  
<211> 598  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220133c12a1

<400> 11773

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ctcagttttg gaccttttgg tttggctcaa aaggttgaat ttcaaagaaa ttcttggttg 180
atggttgatg ctatgtctca tcagtgtggt ctataagaag ttgggggttt gccatcgcta 240
tgtatgtagc tagtcattgc atttgagaac tgttggggat cttctccaac attgtagaag 300
gttgagaaga cattagttgg tgggcatggt tttgtgttcg agggatttga gctttggatg 360
cagattgaag agggctaact gttaaatacca taactcccat caagggtttt gctttgtgtg 420
tttgtggaaa tagcataccc tttgagctgc tctgtctatt ttcttctggg gtcttgttct 480
atcttctgga aggttgcttc attggaccct tgtttgatct tcaacaatgt cagagaagat 540
catggttcac tcaaggggta tattttgtgt gatgataatt ctatgttcct tttgagct 598
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<210> 11774

<211> 230

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133c12d1

<400> 11774

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ctgtatgttc caagcaatgg acctgctggt agggcttcct aggatgcata tgccaggaag 180
aggacattga tggaggttgg cttggacatt aagagagatc tactagaagt 230
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<210> 11775

<211> 428

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133d01d1

<400> 11775

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attttaacaa caaatggcac cacaaaataa aacttaaggc attaatgatg tttatggata 120
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aaccttcttt ttagtgctc cagaggtcag cataaaacgc aaagcaacca gtctggcacg 180  
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 gcaagaagtt gagcctcttt ctgtcaagc agtgcattca acctgacatt ctctccata 300  
 agtttgtgaa cttcagcctc tttctgcatt ttctcaccct ctaattgagt agtctttgca 360  
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 tctcttac 428

<210> 11776  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133d02d1  
 <400> 11776

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 ttatcgccat gtcctacccc catttccaat accttccaa gtattaataa aactcaaac 180  
 acccagtcg gcacaagcat tgactttacc atggcagaag tgggcccgcc ccctacctga 240  
 ccttgctcat tcaatgttaa aaaattacc cctatctatt gataagggtgc atgcagccaa 300  
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<210> 11777  
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 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133d03d1  
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 taggtgtgag gtctcagcgc ctgcactcaa caggaatgcc ttgtgggaat cgcttaagat 180  
 cgttgcaata gttatagatc atgaagtact tatgaacca tctcagtttt tttctgcat 240  
 aggcataaag ctggttgctc tgccattcag catcaaataa ggaattgtcg gaaaactctg 300

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342

<210> 11778  
<211> 435  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220133d04d1

<400> 11778

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aaccacaagg cgaagagaaa aataggtctg aggtctcagc gcctgcactc aacaggagtg 180  
ccttgtggga atcgcttaag atcgatatgc gtagatatag agcatgaagt ccttatgaac 240  
ccatctcagg ttttttctgc cataggcata aagctcgttg ctttgccacg cagactccaa 300  
gaaggaatgt tcgcacaagc tctgggggtat aaaaatgcgg tagtgaggat gtaaaggggtg 360  
ccttggacca atcagctttg accaaaccac ctgtggcggc ccagtcatta ccgtttcaca 420  
ggctagaata gaatc 435

<210> 11779  
<211> 165  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220133d05d1

<400> 11779

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ataaagcata ggggcaaaca cccagtatc tggagcggta caaaa 165

<210> 11780  
<211> 306  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220133d06d1

<400> 11780

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 ataaagcata aaggcattca ctctagtatc tgcagcggta cattattcca ccaaaaaata 180  
 agggggggcaa ctaaaaacat acataggaag tatatataat tattttcttta taaaatattt 240  
 ttaaaaaacta agagtatgat ataaaatgaa aatatgatat tcttctactt ttaaaacttt 300  
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<210> 11781  
 <211> 195  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133d07d1

<400> 11781

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 caaacttgag tactgcctgg aaaactgacc ttcacaattg tacgggaaaa ccttcgagaa 180  
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<210> 11782  
 <211> 259  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133d08d1

<400> 11782

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 atctgccctt gtcacttatt caggaaaacc ttccaggagc aatatgcctc actgaaagga 180  
 tctgctacct tgagggcccc caaagtctta gccgttcatt cgtcaacctt acatcccttc 240  
 acgctcccaa acatcgccc 259

<210> 11783  
 <211> 558  
 <212> DNA

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<213>      Glycine max
<223>      Clone ID: jC-gmf102220133d09a1
<400>      11783

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gcaccgaatg aagaagttag tccccccaaa aaaagtaaag aagaagatac agatgtgaaa      180
attattacag acaaattagc tactgctctg ctgacaatta gtgcaaaaga agacttagta      240
aagcagcatt ctaaagttgc agaagaagct gtctcaggct gggagaaggc tgaaaatgaa      300
gtgtcatctt taaaacaaaa gcttgatgct gaaaggaaga agaactcaat tctcgaagac      360
cgagttggtc atcttgatgg ggcaactcaa gagtgtatga ggcagcttcg acaagctaga      420
gaagtgcaag agcaaaagat tgttgaggct gttgtgaata gttctcgtga ctgggaatcc      480
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<210>	11784
<211>	549
<212>	DNA
<213>	Glycine max

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aaagaagtct	ctctaggcgt	ttcagtgaag	actgggtggc	tacagttaat	ttgtaagagc	180
tggttatgag	ttttgtaaat	ttattttttc	tcattggactg	atttaattgca	ctgtttaatt	240
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ttggacagga	accctcact	aaaatttcag	aaactagaaa	tgaagacatt	agggatgata	360
aattttattag	tcttgcaatt	gatgcacaag	atgatgtctc	tcctaatacgt	tcaagttctg	420
agactcgaga	tggaagcat	gctcaagctc	gtacagatgg	tgtgggcaat	ggttattttg	480
atcctaaatc	ttccaaaggg	gataagtggc	agaatgggga	acttggacat	tntaaaggta	540

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549

<210> 11785  
<211> 122  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220133d10d1  
  
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ta 122

<210> 11786  
<211> 543  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220133d11a1  
  
<400> 11786

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cggcattaac atcattggag gagtcgtcga caccgttact gctttggcgt cccacatctc 180  
catccagctc attagtgcc ccaaggctga tggacatggg aaaggaaaag ttggaaaggc 240  
tacaaattta agaggacaag tgtcgttacc aaccttgga gctggcgaag atgcatacga 300  
tgttcatttt gaatgggaca gtgacttcgg aattcccggg gcattttaca ttaagaactt 360  
catgcaagtt gagttctatc tcaagtctct aactctcgaa gacattccaa accacggaac 420  
cattcacttc gtatgcaact cctgggttta caactcaaaa tcctaccatt ctgacgcat 480  
tttctttgcc aacaatacat atcttccaag cgagacaccg gctccacttg tcaagtacag 540  
aga 543

<210> 11787  
<211> 204  
<212> DNA



<213> Glycine max

<223> Clone ID: jC-gmf102220133d11d1

<400> 11787

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aggagacacg agaacattca agtgccccaa atacataact taaccatata tagggatgatg 120  
acggaacat attccttata ttcactttga tcgaaaacca gggaaaaggc tggagcaacc 180  
atagagcccc taaatggaga tact 204

<210> 11788

<211> 533

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133d12a1

<400> 11788

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gcaggcaagg aggaaaaaga tgtcaagagc tcaagatgga atactgaagt acatgctgaa 120  
aatgatggag gtttgcaagg cacaagggtt tgtttatggg ataattcctg agaaggggaa 180  
gccagtgact ggagcatcag acaatcttcg tgaatggtgg aaggacaagg tcaggttcga 240  
tcgaaatggt cctgctgcc a tagtgaagta tcaagctgat aatgcaatcc ctggaaagaa 300  
tgatggatgc aattccattg gtccaactcc acacaccttg caagagttac aggatacaac 360  
cttgggttct ctcttgctcag cacttatgca gcaactgtgat cccctcaga ggagattccc 420  
attagagaag ggtgttcctc caccatggtg gccaaactggg aatgaagaat ggtggcctca 480  
aattggtcta cctaaagatc aaagccctcc accttacaag ataccacatg acc 533

<210> 11789

<211> 296

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133d12d1

<400> 11789

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acatagggct aacacataaa gacacacatt aaaagggcta catgatggga acacccatga 120  
 tttatgaacc cataatatag taccacctga ccagagctgc cgaagcataa aagtatgtaa 180  
 cgacctaaac gattacatgg gaagaaaaat gcattaactg gcttttagagt caagggactg 240  
 tcacatagtg cgttttaaag acacaataaa agcccttgat acacgagtat gccctc 296

<210> 11790  
 <211> 538  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133e01d1

<400> 11790

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 tagtcatcgg cctccctata taattttttg tttatggcct gaatcatgca atgaaccaat 120  
 tacatggagg ggggggccct tatttgataa aaaaaactgt tttctcacag atatggattg 180  
 gagttagaaa catgagtacg ttgggtttgt aaatgtatcc atgactgctt tattacaaac 240  
 atgtttattg gagtgacctg tctactagaa acaaacatgg ggagggatga gctttcctgg 300  
 attcacgata tcgttgagat ctaagactgc ttttattttt tttattggcc tcaatgctac 360  
 cacttcgatg tcttcttgag aatgctcaat tggtgcagtt acaacaccat gtttaccggg 420  
 acaagtaact tctaatagaca aagcggcatg aaccataaac tgggcgagtg tctctgaetc 480  
 ccaccgttgt tctatttggt taggatcaaa tgaaataacc gtgtggaagt taccatta 538

<210> 11791  
 <211> 390  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133e02d1

<400> 11791

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 aagaatcaag atgaccaata ctacatttgt gtagcttaac ataaaccact tgatcaatga 120  
 aagaaagatt agattggctt cattatgtaa caagttgcac aaaaatgtga ttagtgtctg 180  
 attcttaatt atctatggct aaaaaggcaa gtgtctggat caacactagt cggttttgaa 240

ttaagaagtg ggtgaagagc ttgacaaca atacgcatgt ttggcctaaa gacagcttga 300  
tatgggtacac aaagtgctgc aactgctgct aacttagcaa tagccttgag tgggtatcca 360  
ttgtatactt ggagatccac acattgggtc 390

<210> 11792  
<211> 447  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220133e03d1  
  
<400> 11792

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tatattcggt ctttttggtt taccacaaaa aacacttttt aatgggaaaa atttaaagat 120  
ctggctccca aagtcaccga cccaaaaaat ttgatggcc tggggctgat attctatttc 180  
tttcgggtcc atagggctcc taacatgttt ttcttcttcc tgtgaggcac cgacaccatg 240  
gcaggacatc aatagcggaa ttctaaggct ccctgtgagc ggggggatct ggcccaaagc 300  
catcttcatt ttgggaatat agagccagag gggcctgaga aaaaattttc cccttaaaga 360  
tggggttgtc ggggggcgcc cctcgaaacc ctgttaggga ttttcccttg ccctccccct 420  
cttttgaaaa atggcggtcc acatccc 447

<210> 11793  
<211> 447  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220133e04d1  
  
<400> 11793

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ttatttgttt ttattgttat accccaaaca acatttttta tgaggaaaaa gttatagatt 120  
aggttccctt agacaacgac acacaatgtt ttaattgcct tgggactggg ccttcctctt 180  
ctgctgctcc tgaggattcc taaatagtta tactacacct tggacacaac ctccacttgt 240  
gcaggatata aatgtgaaa tccatattca ccaaataact ggtgggataa ttcttcaacc 300  
aatattatatt ttagaaaatc gagccaagga gtgcctctat gaatttttca aacttaaaaa 360

tggtttttttt ggggggctcc ccttaaaacc ctgtagggat ttttcccttt tttccccct 420

ttttgaaaaa aaacggggtc caacccc 447

<210> 11794  
<211> 234  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmfl02220133e05d1

<400> 11794

tgccctttct ttttttttgt tttaatcaga cagcttgggt tctcatgtcg aggttgaacg 60

tacttagaca actgctattc tcatacattg caaccagtgg gaggataccc gagactatat 120

tacaacaaca gagccatatt tataatgcgc atacataggt gacttcgagt acacaaaaaa 180

gggtgacttc taaaaatgac aatatttcag cacagtgcac atgaattoga gggc 234

<210> 11795  
<211> 461  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220133e06d1

<400> 11795

catttgatgc agcgatnctg gatcatgctn agctaataat tacagggctc gacgatgctc 60

actatgtcgg aggcctgccc tttttttttt tttttttttt aaaaccatat tgcataatag 120

agatcaattc ataaatttgt attcagcaag caatttatgg atacaaatga cggctccgat 180

taaatttaat gttactaagc aaacatggga aaattgttgc agagagagtc ttccacgaga 240

taagagatac gcaagtcgat acgtatcata aaagattaca gatgaaaagg aacagactct 300

gctcaactat atcctatgag ctgctgttgg tgatgagctg ggtaaccagg atatcccga 360

taactgccat acatgtcagg atcctgtcca gcaggagctt aaccataatt gaaatattcct 420

agagcagcat acccataaga tccaccacca gaaccagcac c 461

<210> 11796  
<211> 347  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220133e07d1

<400> 11796

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 ggatgcttcc tttcaacaaa cggtcgatga tgattacagg gaatgggaaa gagaattaaa 120  
 aagacacaca ctaggatgat gatcagcttt tgagggaagg gggttgttta cctagctgat 180  
 aagggctccg tcttttcgtt tacgggcagg tgttgaagct ccggctctgt tgatggtcatt 240  
 gctcatggga ttcatgtgca tgtggaattc ctctgtcagc cctggattag gagtcagcct 300  
 ggctgttccc taggaagtgc caggagacca gcttcaagag actcacc 347

<210> 11797

<211> 552

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133e08a1

<400> 11797

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 gcttccctct tgcttatttc atttttcttt tctaaacatt gaaggatttg aattgtcaaa 180  
 ttacttactc accctgcttg acaattgaac aaggtttgct ggctggcctt attcaacttt 240  
 gcctcaattt tccaaatggt tccatttcca ttcaattttt tctttggaaa atgaggaagc 300  
 caaaaatag gggttccgta tcttcaaatt gattacttca aaggaaaaaa aagagaaagt 360  
 aaaggtcttt ctggataaaa tcaaaatgcc atattcatat tatgatattg ggaccagctc 420  
 tcactaacat gcgccgcagc actcattgcg ttcacatgcg aatcttcaat ttcggatttt 480  
 catttcataa attatgtaaa ttagtaataa taataaaaag acgcgtcttt tacctttttg 540  
 ttactcccc cc 552

<210> 11798

<211> 138

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133e08d1

<400> 11798

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 gatctgtaga gcggacttcc cacatagcgg gttgcatttc aacagcataa ccctgcgac 120  
 gaccccccggt ggtaccta 138

<210> 11799

<211> 550

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220133e09a1

<400> 11799

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 cgacatcgtc aatttcgtac actcgaacat ctccaagaac agccgccagc catagccgt 120  
 cagtcgtcgc gctgggtcacc agacctccgc cgaatcctgg ggtaccggcc gagecgtctc 180  
 ccgtatcccc cgtgttcccg gcggcggaac ccaccgcgcc ggccaaggag cctttggaaa 240  
 catgtgccgc ggccggacgca tgttcgcccc gaccaagatc tggcgccgct ggcataggaa 300  
 gatcaacgtg aaccagaagc gctacgccgt cgtctccgcc attgctgcct ccgccattcc 360  
 ttccctcgtc ctgcgccgcg gccaccgcat cgagtctgtc ccggagctcc cccttgcgt 420  
 cagcgactcc gccgaaggag tcgagaagac aaaagaagcg atcaaagtcc tcaagcagat 480  
 cggagcattc ccggacgccg aanaggctaa agacagccgc agcattcgtc ccggcaaggg 540  
 aaaaatgcgt 550

<210> 11800

<211> 339

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220133e09d1

<400> 11800

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 actaaatggc gacttataaa ctctcgacct tgtccgcata ctgacgacga ccaccttacg 120

ccggaaaaca aactaaccac cgatccggat atgcagcccg gatgagcagg acgaacaaaa 180  
 tcctaatacg aaagaataga tgatgaacgt cacagcgaaa caccacaacca cttataaaaa 240  
 accgtcgaga cctgcatgac gcgagtcgga caccatcgtg tgataccatg ctttgccagc 300  
 agccttgatg agcaacgctt tctgcttaga gacagtctt 339

<210> 11801  
 <211> 601  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220133e10a1

<400> 11801

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 cgccgccacg tcgcgacgagc acgaggagct gatgtccatg tacgagcagt ggctagtaaa 120  
 gcacggcaag gtgtacaacg cgctcggaga gaaggagaag aggttccaga tcttcaagga 180  
 caacctgcga ttcacgcagc accacaactc ccaagaggac cgaacctaca agctcggact 240  
 gaaccgggttc gcggatctca ccaacgagga gtacagggcc aagtacttgg gaaccaagat 300  
 cgatcccaac cggaggctcg gcaagacccc gagcaaccga tacgcgccac gtgtcggcga 360  
 caaactacct gaatcgggtt attggaggaa ggaaggtgct gttcctccag tcaaagacca 420  
 aggaggctgt gggagctggt gggcattctc agcaatcggg gcagtggaag gaataaataa 480  
 gatagtgaca ggtgaactga tttcgttatc agaacaagaa ttggtggatt gtgatacagg 540  
 atataacgaa ggatgncatg gagggactat ggactatgca tttgagttca ttatcaacaa 600  
 t 601

<210> 11802  
 <211> 138  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133e10d1

<400> 11802

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 atttgaatac aactaccgag catcactaat ataaccatat gatcacagtc tacatgcgac 120

tgatattaga taccgaat

138

<210> 11803  
 <211> 560  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133e11a1  
 <400> 11803

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 atcttcaagt gcctctcggg tcttcagtc aaacaatggc catgggtgag ctctgggtgga 120  
 ttacgtgctt tctctaacta ctgttttcca cacttaacga accagaacac agtgagaaaag 180  
 acataatggc ggtggagtac acatgctgct caacggcctt ctctggtcac atactgggtca 240  
 tcgtgctgct cgtgcttttc gggggcctca tgcgggcct caccctgggc ctcatgtcgc 300  
 tcagcctcgt tgatcttgaa gttcttgcta agtctggtac tcctcaggat cgtaaacacg 360  
 ctgagaagat attaccagtt gtcaaaaacc aacatttatt gctatgtact ctgctaattt 420  
 gcaatgctgc agccatggag acacttccta ttttcttga tggccttggt actgcatggg 480  
 gcgctatcct aatttctgtg acattaattc tttgtttgg tgagattata cccaatcag 540  
 tttgttctcg gtatggtttg 560

<210> 11804  
 <211> 256  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133e11d1  
 <400> 11804

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 cacagcacia ctcacatctc tatacagcag atagcaaccc tgaaccgcag tatgtattga 180  
 actcttgcta gaggtccaaa catgaaatat gaccttggaa ggatcgatgg aaaaagcca 240  
 ctggcatgag tcttga 256



<210> 11805  
 <211> 551  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133e12a1

<400> 11805

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ccttatgcct ctcttaaacc ttgtcctcaa actagctcat tcccttccaa actgttcatt  180
ctctttcatt ggcacacaca aatccaatgc aatccttttc ccaaaaacccc acatcccaaa  240
taacatcaag gçctatagca taagtgatgg aatcccagag ggtcacgtcc taggcaaaaa  300
cccaactgaa aaattgaatc tttttctcca aactggtcct gagaaccttc acaaaggtat  360
agaattagcg gaagcagaga caaagaagag agtcacatgc atcattgcag atgctttagt  420
aacctcttct ctcttagtgg ctacagacct caatgttcct tggattgcac tttggcttcc  480
caattcatgc tcactctctc tctatntcta cactgactng attcgccagc actgtgcaag  540
ccgtgctggg a                                                              551

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<210> 11806  
 <211> 310  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133e12d1

<400> 11806

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gccgacttat gttaggatct tgtcggggaa ctaattcaca aacaaaacaa taggcataaa  120
gttaactaca aacacaacta acgcgagtat ctattcatgg gatccatcat tttaatagct  180
ttgatataaa ataacccatg catacaaagt agcgctattg agttctagat atgacttgca  240
ccagagtgag gaaacctagt gttgcttgcc cttcaggcct acctgcatct tccacagnct  300
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<210> 11807  
 <211> 383  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133f02d1

<400> 11807

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 gacatatgct tctagcgcaa tacactatat ttttcaacc aaaaaaaaaa atttgaaaag 180  
 acatttaact taaaaattta tacaaaaacg gttgaatggt aataaatact atataacttg 240  
 gcccccaaag aagcttttat agaaccctcc cctccattt cttttgaagc ctacgttggt 300  
 acaacagatc aaaaaattt aacttctcct taacgctttt tttttgcaa agatttaa 360  
 taaaatgcca caccaccaa aac 383

<210> 11808  
 <211> 158  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133f04d1

<400> 11808

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 tgggatgggt gcaaatttta attttcattt tcaaccac 158

<210> 11809  
 <211> 154  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133f05d1

<400> 11809

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 ccaagcctct tcgacggcga caacaaaact catt 154

<210> 11810  
 <211> 119  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133f06d1

<400> 11810

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gagttcccta gactctgttg ctttgcaaaa ggctcaccca cccgtgagcg ctgcccacc 119

<210> 11811  
 <211> 341  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133f07d1

<400> 11811

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gaaaaacact agacatgtca atggaacact aaagtcagat cactagagat ggaacttttg 180

caagcaaaaa gcagagaact ggggggtatcc cttcaagctg ggcttgctat cctcatatgt 240

gagcccgaat caaactgggt aaccagcatg ccattcaaaa ctgtgcgaaa atgaccatgc 300

ataatagccc ttcaaattta caccttgctt gatcgcttga a 341

<210> 11812  
 <211> 509  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220133f08a1

<400> 11812

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cctttttcct tccacttttc tctttggaat tggttcttct gcttaccagg cagaaggagc 180

agcaagtgtg gatgggagag gaccaagcat atgggacacc tacactagac agcatactga 240  
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 tgacataaaa atagcgaaag aaattgggct ggactctttc agattctcta tctcatggtc 360  
 aagaatattc ccaaagggca agggagcagt taacccccctt ggggttaaatt tctacaacaa 420  
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 ctttccacaa gctcttgaag atgagtatg 509

<210> 11813  
 <211> 412  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133f08d1  
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 ctaaagtcag atcacttgag atggaacttt tgcaacaaaa cagctgagaa cttgggggtat 180  
 ctcttcaagc tgggtcttgtt atccacatat atgagcccga atcaaactgg gtaaccagca 240  
 tgccattcaa aactgtgcga aaaagaccat gcataatagc ctttcaaatt tacaccttgc 300  
 ttgatcgctt gaagatagaa ttttaagatgg ccatcatggt atctaactct tatactatcc 360  
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<210> 11814  
 <211> 585  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133f09a1  
 <400> 11814

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 tttaatcaca aagaatactt ctacccttta acatactcac cttggatgga tggaatgggg 180  
 attgtttcta atgtgtttat agggatgcct atttatatag attagatttt atccatcata 240

aaaataaaaa ctgattccat aatatcagga tgtaaataata ctttcaacaa ctttataatt 300  
 aaaactgaaa tcgtgttaat aacttggaat cgtgagaaaa attaggacca ctttcatttg 360  
 atttcaaaat caaaactaac acttaaagga tacaatatgaa aaggaatttt gaatagaaat 420  
 ataccatttt gaaatcaata cgacttacaa cgagacaccc aaggattttt aagcaatgct 480  
 agaagaaata tcaaaagata cttttgtttc ccactaatta gttttaaact tacttgcata 540  
 gtttatgatt aatactgtga ctatttttac tcatgtctac aggca 585

<210> 11815  
 <211> 162  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133f09d1  
 <400> 11815

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 agtatattca ccataatcac tgagaaaagt actaggatac aa 162

<210> 11816  
 <211> 565  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133f10a1  
 <400> 11816

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 tttaatcaca aagaatactt ctacccttta acatactcac cttggatgga tggaatgggg 180  
 attgtttcta atgtgtttat agggatgcct atttatatag attagatttt atccatcata 240  
 aaaataaaaa ctgattccat aatatcagga tgtaaataata ctttcaacaa ctttataatt 300  
 aaaactgaaa tcgtgttaat aacttggaat cgtgagaaaa attaggacca ctttcatttg 360  
 atttcaaaat caaaactaac acttaaagga tacaatatgaa aaggaatttt gaatagaaat 420  
 ataccatttt gaaatcaata cgacttacaa cgagacaccc agggattttt aagcaatgct 480

agaagaaata tcagaagata cttttgtttc ccactaatta gtttaaaact tacttgcata 540  
 gtttatgatt aatactgtga ctatt 565

<210> 11817  
 <211> 79  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220133f10d1  
 <400> 11817

aattacaatc tattttgata ttcattggaac taaatgatta atcctgtaca caagagaaag 60  
 ccttgccctta aattcagcc 79

<210> 11818  
 <211> 560  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133f11a1  
 <400> 11818

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 ttttctcaaa gccaagctg atgaagcca taaaattgct cttgattcct atgtcccaga 180  
 gccccacgat gtcgccatg aactcaattt ccatgttcat atggcactgg aaaactccac 240  
 aaggaggga ctaaggcaga ggaaacttag aggaggaggc aaatgtcaag cctccaaccc 300  
 cattgacgct tgctggagat gcaataaaga ctgggccaat gaccgggtca ggctagccaa 360  
 gtgcggcaaa gggttcggaa gacggggcac cggcgggctc ggtgggtcca tctatgtcgt 420  
 caccgataat tccgatgacg acatggtgaa ccctaagccg ggaactatcc gtcacgctgt 480  
 cacccaaaaa ggccccttgt ggatcatctt tcgacacagc atgatcatca gttngaggca 540  
 agagctgatg atttcctccg 560

<210> 11819  
 <211> 554  
 <212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133f12a1

<400> 11819

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ttttctcaaa gccaagctg atgaagccca taaaattgct cttgattcct atgtcccaga  180
gccccacgat gtcgccccatg aactcaattt ccatgttcat atggcactgg aaaactccac  240
aaggaggaggaa ctaaggcaga ggaaacttag aggaggaggc aaatgtcaag cctccaaccc  300
cattgacgct tgctggagat gcaataaaga ctgggccaat gaccgggttca ggctagccaa  360
gtgcgggcaaa gggttcggaa gacggggccac cggcgggctc ggtggtecca tctatgtcgt  420
caccgataat tccgatgacg acatggtgaa ccctaagccg ggaactatcc gtcacgctgt  480
cacccaaaaa ggccccttgt ggatcatctt cggacacagc atgatcatca gtttgaggca  540
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<210> 11820

<211> 248

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133f12d1

<400> 11820

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aagaggagac tatgtaagcc caagctgaag ccgcccataa aaaaaagcta gattcctatg  180
ggccatagcc ccacgatggt ttgaaccaac tcaacaaaca tgttcttatg gcaccggtaa  240
actggcca                                     248

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<210> 11821

<211> 359

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133g01d1

<400> 11821

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 cttcctgcgc atgcttcttt tcctaagtca cgctctatgc atgaccgaca gaaaatttat 120  
 acccgcacta aacgctattc atagataccc tggtgaaaat tgttccacac aaatttgcta 180  
 ctgctttgct gactattagt gctagacacc actccatgaa gcactattct aaatgagcca 240  
 aataagctgt ctcaagctcg catattgcct accatgatgt gctttcttta aaacaaaagc 300  
 ttgatgctct aaggaagaag aactcacata tcgtggacgg gtgcocttat tccctgggc 359

<210> 11822

<211> 105

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220133g02d1

<400> 11822

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<210> 11823

<211> 449

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220133g03d1

<400> 11823

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 ttgggttttc gggacaaaga aagtgagca tcaggacggt ttgaactgtg aaatgtggag 180  
 gaaatgaaca aaaatgggta tggacttagg acattacca atgcactgtt cttacacaat 240  
 ccgcatttcc agccgaatga gactcattcc ctactctgca cacaatctca aagaggcact 300  
 tgcttatcct taatgggtga catgacatgt cttcattgca acgttcctag cctgtccata 360  
 cgcacacaag cattcaacac tgttgggtat gctgcccatt aaaaagctta tgcttctgca 420  
 gttggacaca cttccaggat gtgcccctt 449



<210> 11824  
 <211> 340  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133g04d1

<400> 11824

tgtatattaa tatccttta ttatatttca ttttaataaa tgattatctt tgggattggg 60  
 ataaacactc tacaatgtgg cgactacacc tcacttctac cttcagccac ccctcaagtc 120  
 attaccgaca tggaaggtaa tgatctccac attgccggga aagaaaccct gatgtctttt 180  
 tggggccaaa gggtcctat tttagaaacc caccactgg gaaagaatga ttcgctaaca 240  
 cctaacgccc ataatgttta tcacctgcct tggggactgc atccctaata taaactccct 300  
 attgccgttc tgaaaacccc aactgatttc ccgagaacat 340

<210> 11825  
 <211> 339  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133g05d1

<400> 11825

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 ctttacagaa agtgcagtaa tatttaaaaca cgtagaccat tgtattgcat ccataatacc 180  
 ggaatgatgg aaatttacac actactaaat gttccggatg acttgaaaaa actaatcata 240  
 gggtcataaa gaccttgttc ggcttgcaag cttaaaacga agccaacatg accatagttg 300  
 tcaagataaa ccacttccgg agcggatggc aatcccttg 339

<210> 11826  
 <211> 329  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133g06d1

<400> 11826

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 aactagcggg actgaagttc tgaaatacag aacaactgtg gacacagtat gaatgtaaaa 180  
 ttaaaacacg atgttttgaa tgaggctgct gaaccacgta taaacttcgg gtattacaaa 240  
 accgttagtc atcctcaata gcagataaca gagacttata cacagaatcg gacattgaac 300  
 tcgagccaca agcgaaacct tgaaaattg 329

<210> 11827  
 <211> 421  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133g07d1  
 <400> 11827

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 tgtgtcttca tcatccatga acactcattt cagtatttat cttctatccg ttacgaaatt 120  
 ctgtccggaa atatccaaga gtgtaaggat tttggctatc tgaaaccaa atcgcacgtc 180  
 tgcagattta aaaagggcac acaaaacatt attcccatgt caggcaactg gcaagggtcca 240  
 tgcttagcaa aagacggcaa cattgacaga cagtataaag ttgaaattac caccacactt 300  
 ctatttgga tccatggaaa agcgccttag acaagagcct aggggaactct gtatgccaat 360  
 tccttcatag catgaccaag cctattttca gactgaacac tctgaacca attggcattg 420  
 a 421

<210> 11828  
 <211> 382  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133g08a1  
 <400> 11828

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 tttatctaaa ataaactgac caaattacaa aataatttct cttcacttca aaaaacattc 180

tctttatttt aatccaaaaa acctattttt caattaaaaa aaaaaaacca atccttaaaa 240  
 aactaaactc tttcttaatt caacaataat atactttttc tccaaagaaa aaacattcca 300  
 aaataaaaat tcctcttaaa aaaaaaaaaat aaatttacac acctcttaat aaatataaat 360  
 tattcaatta acaacatact ct 382

<210> 11829  
 <211> 607  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133g09a1

<400> 11829  
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 atatattgca agctttgaat actactggac ataatgggtt tcctgtcatt gatgaaccac 180  
 ctttctcaga ttcaccagag ttatgtggac ttgtactgag gtctcattta ctagtgttac 240  
 tgaaggagaa gattttttca agggataggg gttttgcaa tcaaaggatc ttccaaagaa 300  
 tttctacttt ggattttgga aaggcgggat caggaaaggg gatcaaacta gaggatcttg 360  
 atatccaaga ggaagagatg gatatgtatg ttgatctcca tcccataact aatgcatctc 420  
 cttacactgt gggtgagaca atgtcactag ccaaagctgc tattcttttc cgacaacatg 480  
 gactcaggca catgtgtgtt gttccaaaga gccaaaggag acctncagtt gttgggattc 540  
 taacacgcca tgattttatg ccagagcant gtttgggact tcacctgat atcatgcctc 600  
 acaaatg 607

<210> 11830  
 <211> 298  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133g09d1

<400> 11830  
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atgaaataga gattaacagt ccattcgctg ctgtcacttc ttaagcagct ttgttggatt 180  
 caagtgttct gtgaataatt attgcactct actgtgtata aaaacttcga tcaactaatg 240  
 aatgcaacac ttcgacacgt acagaagaaa gaatatttgg catggagatc cgtcattt 298

<210> 11831  
 <211> 614  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220133g10a1

<400> 11831

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 tggttttggc tgggaaggct caacaagagg agattgggga tggagctaata ttaactattt 120  
 catttgctgg ggaactcctg cagggtgctg aggaacttat caggatgggt ttgcatccga 180  
 gcgagatcat cagtggatac actaaagcga tcaacaagac tgttcaaata ttggatgaac 240  
 tggttgagaa tggttcagag agtatggatg ttcgtgataa ggaacagggt gtttctagaa 300  
 tgaaagcagc tgttgccagc aagcaatttg gccagaaga taccttatgt tcgcttggtg 360  
 ctgatgcatg catccaagtg tgtcccaaaa accctgcaaa ctttaatgtg gacaacgttc 420  
 gtgttgcaaa gctcttggga gggggcttgc ataacagtac tgtcgttcga ggattgggtc 480  
 tgaaaagtga cgctgtcggg attataaagc aagcagaaaa ggccaagggt gctgtgtttg 540  
 ctggtggtgt tgatacatct ngcactgaga ctaaaggaac tgcctcata catacagctg 600  
 agcagctaga aaat 614

<210> 11832  
 <211> 619  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220133g11a1

<400> 11832

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tgtcttgtgg ctccacatca ccacatgctt cccagagatc atcaattcag gggggtgaag 180  
 cttttttcag ggggtgtgttg gaaagtatgc aatctgttta cttgaacaga aatcgtactg 240  
 ctaaggccat attggacctt gttcactctg ctgagaataa ctcattatgc tatgatcatc 300  
 ttgcattcag gacatttggg gtgaatgggt atggaattga ttccatggct agtttttttc 360  
 tggattatgg ctatacacia aggggaagagt tgaggtttcc agccaaaaag ttgagggtt 420  
 tgtggttttc tctcctgct gattcactgg ctagcaatgg cagtggcatt aatgggcctt 480  
 tgccaagaat atttatatca gagctactgg tagatcaaat gagtccacan actcaggana 540  
 taattaaata atacaccgaa tcatctgtgg atgggaacaa gtatgcagca cttgcaagtt 600  
 cccttgacat taacatggg 619

<210> 11833  
 <211> 313  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133g11d1  
 <400> 11833

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 tgggttcgag ttaattattc ttttcgatat taatcaaccc aaattattga tgcaacatcc 120  
 acatgattgg aatgggtatga aatccaaact tacagtatac aactgggtat aaattgtaat 180  
 atatttcccc aagggaaata aaggatacac attctgggta tggagtgaga agagcctctt 240  
 atgagcctac tctgctcaac tgctccttgg atgtgctttg aaatatcctg tcaacactcg 300  
 ctacctcaaa acc 313

<210> 11834  
 <211> 387  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220133g12d1  
 <400> 11834

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 actatagcca tcattgattg tacagaattc attgtaaact ttctttcatt ggcttaccta 120

tgtttttccct tatacaactt gcacagcaag agcctactag attcagggttc atatacttgt 180  
 ctaaacacca gttgccttct atcaagtcca atgaagctag acatataaga gcatactagt 240  
 tccctcttaa aattgggcag aaaaatttat tatataagag agttaatcat ctttgaactt 300  
 ctgctcacat aattagcgga ggatatttta aatactttat cagctaattg atgttcatct 360  
 tcttatgctc tgaagaattc attcaag 387

<210> 11835  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133h01d1

<400> 11835

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 tatggaagat attgcggaact catgtgtggc tgattaaaca tgacgcttca tttgagatta 120  
 tgacaaggaa aattgcgacc tgaaccgtga tctttctttg cagggcgtaa tatcacgttg 180  
 tctcatgat ccacggcgga aaggcccacc tttccctca ccgtcgcttt catgtcatat 240  
 ggcgcttgt gcaccaggtc gccctggcca agatctgg 278

<210> 11836  
 <211> 214  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133h02d1

<400> 11836

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 tgtggttgat tgaacatcaa tcatccatcg tggattcgag ttgctaaaat tccgacctga 120  
 acctatttct gtgtttccag gctatccgaa tacgggtgtcc tcattatcca cggccgaaaa 180  
 gccaccttt gcgcctacc catgccttcc ataa 214

<210> 11837  
 <211> 462  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133h03d1

<400> 11837

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 agtaagacaa gaccccaaat gtcattgctc tgttgcattht aaatgggtata catactacgg 180  
 aattctaaaa gaaaatccaa cttaaagttc ctccccctttt ttttggatcc acacataaat 240  
 tgaccccgca atttattatt tatcagacta aatattcacc caaaggctcg gcgcaaaaga 300  
 ggtggcctat actatcttcc aaaacttgcc ttacatttgg ccagacttta ctaagaagct 360  
 atttttttct ccatttgctg caaggggtatt tgtggcgcaa cttaccatt actttttatt 420  
 ggctgtaaca attgaagggg ttgcatcact tttaacagct gg 462

<210> 11838

<211> 491

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220133h04d1

<400> 11838

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 aggagacaa taccocaaat gtcattgctc tgttgcattht aaatgggtata catactacgg 180  
 aattgtaaaa gaaaatctaa cttaaagctc ctccccctttt ttttggatcc acacataaat 240  
 ggacccggca atttattatt tatgagacta aatattcaac caaaggctcg gggcaaaaga 300  
 ggtggcctat actatcttcc aaaacttgcc ttacatttgg ccagtcttta ctaagaagct 360  
 ctttttttct ccagttgctg caaggggtatt tgtggcacia ctcagccatt actctttatt 420  
 ggcatcaaca tttgaagggg tttcatcact tttaacagct ggagtacttg attgggcac 480  
 ttcattatta a 491

<210> 11839

<211> 388

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220133h05d1

<400> 11839

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 taccgccggg aaatgattca tgggtaagtt attcatttag taattaaatc ttcgtgaatc 180  
 cccctttttt ttaattccag ttaaatecct tatcacattc acaaatatac ataattggggg 240  
 aagttctatt agaaacttgc gtattctgtt tctttgtttt tttaccaaac agggatcgaa 300  
 gtttgtcata taattcgggt gttagaaga ttaccatata taacataaaa cttctgcgcc 360  
 aattctttct aatcgagcct ctgatct 388

<210> 11840  
 <211> 352  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133h06d1

<400> 11840

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 ggaaacatat cctataatca aaatccaatt tgcattaatt atataaggga acttgaaact 120  
 taccgccggg aaatgattct tgggtaagtc attcattcag taattaaatc ttcgagaatc 180  
 cccctttttg ttaattccag ttaaatecct tatcacattc acaaatatac attaaggggg 240  
 aagttctatg agaaacttgc gtattctctt gctttgtttt tttacaaaaa tgggaccgaa 300  
 gttgcccata tattgagggg gtaaaaaatg accccatata taacataaac ct 352

<210> 11841  
 <211> 350  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133h07d1

<400> 11841

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 agattaatag cagggaacaca tgcctgtgt tgtttaccac tgatcaatac tgctagccga 120



gcccacgag ggggtccctg ctaacctggg gcacatcaac actgtagact gcggccaaca 180  
 tggaatatct atcttctaaa aatcagggtcc ctgctttaat cgctccatta gcatgagcgc 240  
 cctggctact attcatggcg acgacaagct attcagaatt cacatgacag ggagcgagat 300  
 tagatgggga ctgccagatg tcggatgcta catcctctaa actcatgcct 350

<210> 11842  
 <211> 492  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133h08a1

<400> 11842

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 ctgcaccatc gacggataca gaggccaaaa tctctgctct cctctcctcg caacagacca 180  
 cgctctgttt cttccattaa cgaccatttg gcgctcacac gtgtcacata tccgcttctc 240  
 caatctcact ctgctccgaa gcgcacattc cacgttggtg tacagaaaga gtattctgat 300  
 ggggaaagct ctgagtcgat tgtttctgac gctacatacc aagaggaatt ttcctggact 360  
 tctgtagttc ttccgtttct attccccgca ttgcgtggct tgttatttgg ctatgatatt 420  
 ggagccacct ctggcgctac aatctcactg cagtcacccg agcttagcgg tatatcatgg 480  
 atcaatcttt ct 492

<210> 11843  
 <211> 122  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133h08d1

<400> 11843

ccgaaaacgt catgctatgc tatctctaag ctcagagctt aacagctggg acacatgttc 60  
 gctcatgaat accagtgatc aattctgcta acaaagctca tagtggggtc caatgtacc 120  
 ct 122

<210> 11844  
 <211> 578  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133h09a1

<400> 11844

cttggttctct tcttcttcaa cacaactagt cataatccag ctcatctctc tctccctggc 60  
 tctttgttct ctctttctct ttctccaaaa tggctctaaa ctaccctttt ttaacctact 120  
 tcatactact gctagtaacc ataaccogtt tgatattcac tgtgggaaaa actgagcaat 180  
 ggaaagctcc gattctacca gagcttgaca ttgataacat atcccacaaa ctccatgatg 240  
 accctgaaac cattcaaagtg gcttcaaggg actatggcca tttaacgcat gaattcccat 300  
 tagctgtggt tegtccatct tctatagatg acatagtcac cttgataaaa tcttogtaca 360  
 atagctttgc ccttttgac atagctgcga ggggccaaagg ccaactccact catggacaag 420  
 ccatgnctcg tgatgggatt gtgggtggaca tggccagcct aagaaaacaa agaatgggg 480  
 ttgcgattag tgtctctaag gacctntga tgggtcacta tgctgatgtn ggaggggaac 540  
 aaactctgat gatgtgctac atgccacact gatatgga 578

<210> 11845  
 <211> 301  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133h09d1

<400> 11845

tgccctcttg tttttttttt aagagaaaga cagagtcggt aaacatttaa tattggtgga 60  
 ctataactca cagcatcttc aatatgatcc gaatttgtcc acacactata tagcaagttg 120  
 ggtgacagac agagcgagag acaacagagc ttgttgacc taccatgtgc gacctatgtc 180  
 agcctaacgg atctatggga atatgccaca tattaggtgc caaaagttct catgcagact 240  
 ttaaggcgac accttatcaa ttcctctagc tagcagggcc tactggagca taccgaagcc 300  
 a 301

<210> 11846

<211> 578  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220133h10a1

<400> 11846

cttgttctct tcttcttcaa cacaactagt cataatccag ctcatctctc tctccctgtc 60  
 tctttgttct ctctttctct ttctccaaaa tggctctaaa ctaccctttt ttaacctact 120  
 tcatactact gctagtaacc ataaccggtt tgatattcac tgtgggaaaa actgagcaat 180  
 ggaaagctcc gattctacca gagcttgaca ttgataacat atcccacaaa ctccatgatg 240  
 accctgaaac cattcaaagtg gcttcaaggg actatggcca tttaacgcat gaattcccat 300  
 tagctgtgtt tcgtccatct tctatagatg acatagtcac cttgataaaa tcttcgtaca 360  
 atagctttgc cccttttgac atagctgcca ggggccaagg ccaactccact catggacaag 420  
 ccatggctcg tgatgggatt gtgggtggaca tggccagcct aagaaaacaa agaatggggg 480  
 ttgcgattag tgtctctaag gaccctntga tgggtcacta tgctgatgtt ggaggggaac 540  
 aactctggat gatgtgctac atgccacact tgaatatg 578

<210> 11847  
 <211> 300  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220133h10d1

<400> 11847

tgcccttttt tttttttttt aagagataga cagaatcggt aaacatttaa tattggagga 60  
 ctttaactca cagcatcttc aatatgatcc gaatttgtcc acacactata tagcaagttg 120  
 ggtgacagtc agagagagag acaacagagc ttgttgacc taccagtgcg atctttgtca 180  
 gcctaacgta tctaaggtaa tatgccgcat attaggtgcc aaaagttctc atgcagcctt 240  
 taatgcccc aattatcaat tctctagct agcagtgcac actttagcat acaaaagcca 300

<210> 11848  
 <211> 573  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220133h11a1

<400> 11848

cttcatactc actagtcact atagctcacc cttgaagaag tgcaatttca tcctctgact 60  
 cttccaaatc atggctagct cactgcttgt catgaagggtt acaagctgca tgggtgcggt 120  
 gttgatgggtt agttttggac acataattcc cttggcagaa gctgaaattc catgtggcag 180  
 ggtgcaaatc acagtggctc catgcatagg gtacctagg ggtcctgggtg gaggtgtccc 240  
 tgcagcatgc tgcaatgggg ttaggagcat aaacaaggaa gccaaaacca cccagatcg 300  
 tcaaggggtg tgtaggtgcc tcaaaaccac tgctttgagc ttgcctggac tcaaccttgc 360  
 aaccttgc a gctctcccta gcaaatgcgg ggtcaacttg cctacaaga tatccccac 420  
 cattgattgc aacacggtaa agcactgagc agttgcacga gggtttatgc ttgttgactt 480  
 taacttgttt cgcagtaata atcagcaaag agagaacana gatggtttaa tttcttccat 540  
 tgtctggatc ccactaggag tatactttat act 573

<210> 11849  
 <211> 278  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220133h11d1

<400> 11849

atgccctttt tttttttttt tgatatatat cagtgataga aaatccaata tgtcattgga 60  
 caaccaacat tattattata acattatgga gatgcagatc atcatcatcc tagtataaag 120  
 tatactccct agagggatcc agacaacgga agaaatcaaa ccatcttggt tctctctttg 180  
 ctgattatta ctgcgaaaca tagggaaagt caacaagcat aaacctcgt gcaactgctc 240  
 agagctttac cgggttgcaa tcaatggtgg gggatatc 278

<210> 11850  
 <211> 442  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220133h12a1

<400> 11850  
 aaaanaaatg ggtgatatct atctatacac tacacgttta tgccacgtcc atagcttgga 60  
 aatcggttg aggacaatca acaattgaag tcatacttta ttctccata ccctcattca 120  
 tttcccctgt ttttcttaaa acaaaattgc cccaatttc ctcccactta aagatgtaat 180  
 ctttttttgc acttacctct tacctatttc atttttcttt cctaaacatt gcatgatttg 240  
 aattgtcaaa ttactttccc accctgcttg acaattgaac aacgtttgct ggctggcctt 300  
 attcaacttt gcctcaattt tccaaatggt tccaattacc attcaatttt tccttttgaa 360  
 aatgtatgaa accaaaatat ggggttccgt atcttcaaatt tgattacttc aaaagaaaaa 420  
 aaatagaatt ttaatttctt tt 442

<210> 11851  
 <211> 306  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220134a01a1

<400> 11851  
 attttcttcc tctaaaccct aaacaactct ttctcttctt ccttcgctcg ttgttctccc 60  
 tcgcgtagat cgacaatggc ggagacagag acgtttgctt tccaggtga gatcaaccag 120  
 ctctcagtc tcatcatcaa caccttctac tccaacaagg agattttcct tcgagaactc 180  
 atcagcaacg cctccgatgc ttaggacaag attcgatttg agagtttagac agataagagc 240  
 aagctcgatg ctgagccaga gttgntcatt catattattc cagacaagac taacaatata 300  
 ctgacc 306

<210> 11852  
 <211> 395  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220134b01a1

<400> 11852  
 tggcgccggc gttggcggcc acggagccgc gtttcatgcc gttgagtaga ggtagaaaa 60

cagccattga ggtaagtgat gtggagggag ggacatgtgt gtacagtggc tgagttcctt 120  
 ccaaagctct tttagccgag tgaggtcgta tgcgtgtact aaggagcgat catcacttga 180  
 agtcctttgg cttacaggtt tctgctgctg gctatgacag acaaggattc gctgatcatg 240  
 ctaataacct tgcttcgaaa atcctgaata atttgaccaa ctcaatgaaa gcactaggag 300  
 tagacatact tactggttnt ggaactattc tgggtcctct aaaggtgaaa gttggctctt 360  
 cagacaaaat agtaactgca aaaaatatca tcatt 395

<210> 11853  
 <211> 380  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220134c01a1  
 <400> 11853

caaagggcat tgatagtga taccgtgat ctcacaagag cctatgagag ggtgggatta 60  
 gctagggaa cccgatcgaag tctactacgg caaacgata gcgttaagcg tcgccaactt 120  
 cttcgccacc gtcacgtgc gtccctccga ccagttaatc ctncacccc accccctcca 180  
 cgatctcctt cattttctcat cgctccctca atagggtcaac aggttgagct cccaagggtta 240  
 ctatggaggc gtgcgatagc ttatggctat ttgcaatgtc ttctacgcgt attgcagaga 300  
 gaacgccatc gatcttggcg acgacaattt cactctctcc tacgacacca atatccctcg 360  
 ccaggctggt ctttcgggtt 380

<210> 11854  
 <211> 355  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220134d01a1  
 <400> 11854

ctctttcggt tctcatcatc tgagacttac actccagttt ccaaaccgag tcgaatgtga 60  
 atttcgattt gaattgagaa tttcatttgt caacttcctt gagatgcctt acacgggtccg 120  
 cgagtacctt tcgatcggga tcacggcgga cgcgggaggag attctcgaac tcggcgccgt 180



aaaaacacca ggtcctggtg ctcaatcagc tcttcgagcc ctt

403

<210> 11857  
<211> 308  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220134g01a1

<400> 11857

gcggagccga gttaccttca attccaggct ttgagttaga atttccttat aacaatcaaa 60  
tcaccctcac acacagagca tctgacaata acaacattgg gtgaatcgga ggtaaggtaa 120  
caaaaaacaa aaggcgcggt agtgtagaga gttcctttnt aatnaaacct cgaaaggatg 180  
aaacagctcc acaagcaaac gagtctgaat caccggaggg aggaagagat gctggggagc 240  
agcgagacct caccatactc ccccaaattc atcaagcaca ccagatccct ccccgatcc 300  
atcaacta 308

<210> 11858  
<211> 389  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220134h01a1

<400> 11858

cttcttcttc ttcgaccttc gattagggcc caacacaaac gcaccattgg ctccgatcac 60  
tgcgcgaccc aattccatgg cggctggccc tacaacaaca tcaccctccg atcgaccac 120  
catggtccct cccccaaagc tegtctccga ctcttcgcc aaggacgcca tctctgctg 180  
gttcgcgggc gagttcgctg cgcgaacgc catcatcgac gccctctgcg cccacctctc 240  
cgctcctcc gccacgatt acgacgccgt cttcaccggc atccaccgnc gcaagctcaa 300  
ctggatcccc gtctccaga tgcagaagta ccactccatc gncgacgtca cgctcgagct 360  
cgccagactc gccgacagaa accacaact 389

<210> 11859  
<211> 316  
<212> DNA



<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220135a10d1

<400> 11859

gaattatgta tgttcaggtc ccaaaaaaat tcaggncgac agctncacag ccggcggccg 60  
cccttggttc attggaatta aaacaaacgc gggttaaaat attttttgac ggcaaaacaa 120  
aaacaggggg aacgtttggg ataatttgat ccggtatata tagaccacca aaaagtctat 180  
aaacacaagg ggaagctaaa ttaaacccca agaagaagaa aaacctagta aaaaaaggca 240  
aacaacggaa aacacctcca aacatggcca cttaaacaca aattaaaaaa tgaaaaggaa 300  
agaaaaaaaa caaaaa 316

<210> 11860

<211> 412

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220135a11d1

<400> 11860

ttgggncgag gcactataag caacagaaac ttaaagcttt tttaacacca aggaggcggc 60  
gacggggaaa aagacaaang gacagacccg gaccagcaag aacaggagng accaagacac 120  
cgaaaaacca aaaacgcagg gaaggagcac tggggaaaac aaaaagcaaa agacccaacg 180  
actagccatc tgggaagagg cgaagcaciaa tacccatgaa caagacaagg gggacgtgcc 240  
caggaaagac cgagccctac ccgcacacag attgaccaga actggcagcc cccaacaagg 300  
aggcgggacc aggcaccaac aacaagccct gagatacccc tgcaggtgac cagagggggc 360  
cccagtgagg ccccggaac caccaaaagg gcagccggaa cccaccaaag ag 412

<210> 11861

<211> 163

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220135b10d1

<400> 11861



<210> 11864  
 <211> 382  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220135c12d1

<400> 11864

ttggctcggg acccttttaa aaacaccctt tttttatata caaccagcgg aagcgaaaag 60  
 aggggaaacg gagagaaaac aaaggcggga acaaacccca acaaaggag gggggaaatg 120  
 ctcgccaaaa cagaccccaa cgaggctgac ctagaccggg aacgaaaccc aatcggcgaa 180  
 caaaaaacac ctaaaaaacc tgccaaagta atcgaaccgg cctgagcagc agcggcggcg 240  
 gccagcccc agagacgacc cgcccccca ggagcaaaga aaccaccct cgggccagga 300  
 ggagcattaa acctcacggc acttgacgc ccaaacagcg gaggagacca cccccgaga 360  
 ggggggacaa cggggcccaa ag 382

<210> 11865  
 <211> 153  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220135d10d1

<400> 11865

tggggccatg gcnctttcgg ggccaaacct ttaaaacata tctcgcaagg gacacgcaga 60  
 aacgggcnaa ggggtgacaa gnccaacccc accacaccgg ggggcaaaa acaagggaac 120  
 ccaagaagca cccaagagcg ggagaaggga cgc 153

<210> 11866  
 <211> 222  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220135d11d1

<400> 11866

gttagatgct atctgattcn cgaggcagta gggggtgaca ccctactagc cggcggccgc 60

ccttggtttt tttttttttt gacccccac tatattaacg tcattcgcaa aacanacaca 120  
 ggaaccggcc aaagttgtac gacagcaaca ccaaccatct gnnagcgcaa gattcaaggc 180  
 gttcatggga cattaaatga ctggaggaga tccccattgt gg 222

<210> 11867  
 <211> 358  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220135d12d1  
 <400> 11867

ttggtccaaa ggatttttta aacccaatt ttttaatgtc attagcaaaa caaccaaacg 60  
 cagggggcaa ggtagagac agggaacgga atcacccttc acagcgggaa ggagagcgta 120  
 gtctggacat taatggaatg cgagagaaca cacaagctag accatgcccc acgggaggca 180  
 ttatacgacc ctcaaactgg tccacaacag acaagtgcc gcaggaatga ccattaacct 240  
 tagatccatg agaggaccct gcagtgcaca agggatttga cccaggccac ccactggggg 300  
 aggcgtgacc atttccccgg ctgtgacgcc aaaaatatga aaaaggtag ggcccaa 358

<210> 11868  
 <211> 500  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220135e12d1  
 <400> 11868

ttgttttttt ttttttgaaa ctaaagactg ttctaataata ttagaacgcc gacngagcat 60  
 acaggggaaa tgaagaatta gaaaatctct attgaatgtg caccacatt cccttggtg 120  
 caggcaagcc acggtaaacy acgaaaagca agtagtatcc aggaggagct atggcattgg 180  
 atggaggcgc ctccactcta accctgtaag acccttcttg gccttgtagc tttaactcgt 240  
 caatcttgag aaacaaaagc ctctgtccca tagagaagcc atgagtagtg aagggtggag 300  
 aatacatgga caccttaatg ttattcttgg ttaactcagc tccatcttcc accgagaaac 360  
 ttgcctcaaa caaaccacca tacgccaact ttttctccga agcattccta gacaattgg 420

ggcctatact tgacaaagtt ggcgccaaa ttaggaggag agaaagcttc aactcttgtc 480  
tcaattggga aactatccac 500

<210> 11869  
<211> 485  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220135f10d1

<400> 11869

ttgttttttt tttttttcgg ggcaaaaata tcaaaatata tatgaccggc ngccgacaac 60  
cccggggggc atggaaaaac ttttaacaggc ggatagagca gcagccgcac gaccggttat 120  
atgatctaaa tatgataatg tatcaacggg ggacaaaatg aaagtccaca aaactggaag 180  
aaaaaggagt caaactggcg atccccaaaa agagagggca caccacgcgc tcggtgggaa 240  
cagcaacgag gcccggggat cttggagcgc cgaggccgaa cacgtcacc atgctcatgc 300  
tactgggcgt catgccatac ggcaaaagcc acgtgaagca gagaaggagg cgcgccaacg 360  
aaaaattgag cgcgaagaga ccgaacacca tcccggggcg ggacctgcga cccacccga 420  
agggcataaa cccgaagctg cacccttaga aatagggcac gcccggttaa agaaaccggg 480  
cgggg 485

<210> 11870  
<211> 367  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220135f11d1

<400> 11870

ggttagcgtc tgtctgattc ncgaagcatt acgggtgaca gctcactagc cggggccgac 60  
ctgggttttt gttttttaaa cgaaagccta tgттаатата tttgaaagnc caacgaccag 120  
acggaggaaa gggagaaatt taaaagcgcg aaagagggcg caccacaga cccagggcg 180  
caggcaaacc acggcaaacc accacgagcc cgaagcagcc aagaggagcc aagcgccggg 240  
aaggaggcgc cccacacta acccagcaag acccaaaagg gccacgggcg cggaacacgc 300

caatccggag aaacaaaagc ccagagccca tagggaaaac acgacacggg aacggaggcg 360  
aatacat 367

<210> 11871  
<211> 359  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmfl02220135f12d1  
  
<400> 11871

tttctttttt ttttttgaaa ctaaagccta tattaatata ttagaacccc gaccgagcat 60  
acagaggaaa tgggtgaatta taaaatccct attgaatgtg caccacatt cccttggtg 120  
caggcaagcc acggtaaagc accaaagagc aaggagtatc caggaggagc tatggcattg 180  
gatggaggcg cctccactct aaccctgtaa gacccttctt ggccttgtag gtttaactcg 240  
tcaatcttga gaaacaaaag cctctgtccc atagagaagc catgagtagt gaaggggtgga 300  
gaatacaagg acaccttaat gttattcttg gttaactcag ctccatcctc caccgagaa 359

<210> 11872  
<211> 398  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220135g10d1  
  
<400> 11872

tgggggtctta cccctttaac aaccacctg taataacttt tttcngnga cgacaaaaaa 60  
aaaagggggg acggaagggg ccaaaaacgc caaaaacccc aaccccccca aaacccaaaa 120  
aaaaagccca cggaccagac aaaccaaagc annccacgna aaggggaggg gaaaaccacc 180  
cccccgaca agcacaaaac acgcccagac ccacccgaca aaaagaaaag gaacgcggcc 240  
cgggaaagca aacggggaga aaacaaacga caacggggcc cccgaagaga ggccaaccg 300  
cccaccata aaacataaaa aaagcttgac aacggaaaaa cccagccggg tcacccgacc 360  
acggccaacc ccacccggac agggggcaga acaaccaa 398

<210> 11873  
<211> 116

<212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220135g11d1

<400> 11873

ttgggtcttg ggcatttaaa ctaacgactt tattaatata tttgaaaaca gaccggcccc 60  
 acgggggaaa cgtggaaana gaaagccgcc aaagccccac caccacaca aaacag 116

<210> 11874  
 <211> 202  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220135g12d1

<400> 11874

gaatgcttga tttccgaggc aatttcaggg taaacacctc acagccggcg gccgcccttg 60  
 atnttgggtg tttcaaaaaa ccacctgtat taatttctta aacnaagac cgaccacaca 120  
 gggaaaaggg gaaaatagaa aaccgcgaaa gtacgagcac ccacacaaac aggggggaag 180  
 gcgaaccggg ggaaacgacc aa 202

<210> 11875  
 <211> 419  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220135h10d1

<400> 11875

gataaaattc tatccgcatt tcganacatt aaagacgaca gctcactagc caacggccgc 60  
 cctttggtcc aacgctttta taaaaccccc atggtagtaa acctcttacc cgcacaaaaa 120  
 nccaccggg ggcgcaattg taaaatttaa aaccgggtaa ttccccaaa acaaaccaaa 180  
 aaaaaacccc tcttccccgc aagcaaaaac acaaaaaaaa aaaaaccaat aatctggcac 240  
 gccacaaca accacacggg aaaaaatatt acaaaaacca aacggcccaa aaaaagaaaa 300  
 aagagtccca aaacaaaaaa cgaaaaggga ggacggggga caaaaaaaa ccagggcaaa 360

caccacgctg tgcgaaaaaa cccacccgat aaaaaaaaaa aaaaaaaca gaaaggggg 419

<210> 11876  
 <211> 512  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220136a01a1

<400> 11876

gcaaggactg gttcagagga tgccaagtgt tctgattttt tttcngcat gtcctcaaca 60  
 atgactacac ccactggatg atgtacgcaa ttggtggaag ctgaggcca acaattctga 120  
 gccaaaggaaa ccgtttcata gtcocgaaca acaacgccgc gaagctgatc acacacaggg 180  
 actatgctga accccaagtg tggaagaatt ggcagtggca atcagaaatg gacttgttca 240  
 taaacgggtgc acagttcatc ccttcaggct caccatcaa gacgacctac aaaaagggtc 300  
 tcctcatgaa gccaaagatg ggaactcatg ctagtagatt gacacgaaat tccggtgccc 360  
 taaactgcat agttggtagg ccttggttaga caaattagtt aacattaatt gttgttgctg 420  
 ttgggtttttt ttttcttcct ccattttttt aaaatgtag aaagcatgca cccatgcatg 480  
 catgcacaga agattcatgt cagctaggat ga 512

<210> 11877  
 <211> 126  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a01d1

<400> 11877

cggaaacgga aacactcaaa caaccaaagc ctctgacca gcaaccacgc cggcagacga 60  
 gcagggggag gatccggaac gaacagacgc cgacgaaaac gacggggatc cagcacgcca 120  
 caggac 126

<210> 11878  
 <211> 559  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a02a1



<400> 11878

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agtacacctc cccagcttcc atttaagaat ggagatcact agaataggcc aatgggtaag 180  
tcttctgata tgtgtactac tattactgca gacagaaggg gttcctgtgg gaatcacttt 240  
tggtgaaaat gcagtggcaa aaggggctgt ttgtttggat gggagtcctc cagcttacca 300  
cttcacaaag ggatctggag cagggattaa caactggata gttcactttg agggaggagg 360  
atggtgcaac aacgttacta cttgcctttc ccgtagggac actcgattag gttcatctaa 420  
gaaaatggat acatcacttt ccttttctgg gtttttcagt aacagtaaaa agttcaatcc 480  
agatttctat gattggaaca gaatcaaggt taggtattgt gatgggtcat cattactggg 540  
tgatgtgaaa gctgtgatc 559

<210> 11879

<211> 553

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136a03a1

<400> 11879

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caggctcagc tcaatcccca aactgccct ctacttcggg cagcgctgcc cgacctgcc 180  
caagaccttg tttctgagat gatgagacc cctttgaggt cttatgacct taatctcatc 240  
caagacccca ctgtctatag gttgaatgaa gctgttatgc attttgggga gagcatcaaa 300  
gaaataatca atgaggagtt tgggtgatgg atcatgtcag caatagattt ctactgctcg 360  
gttgataaaa ttaaaggagt agatgggaag gatcgtgtgg tattgacatt tgatgggaaa 420  
tatttgccac attcagaaca gaaatctgag cacatgggtt caagaacaag gccactggga 480  
aaacagtgag tatcttcatt ggaggaccaa ctacgcaatc ttcaacacca gtctacctgc 540  
acatgaatta tca 553

<210> 11880  
 <211> 330  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a03d1

<400> 11880

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 ttggtcgaga tcaccaaccc aagaggacct gaaactgctt ggagaggctc ccacgcataa 180  
 gcaggagacg atgagaacga acacagacga gatgcacgaa aaccactcta gcctctggta 240  
 cttcggctct agcaagagca atgcacggta ctgtaactcc aagactgaca gacgagaggg 300  
 gctagacatg tggctctgaa gcacgcaact 330

<210> 11881  
 <211> 544  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a04a1

<400> 11881

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 gtctccatgg agtcaagagc gacatcgttg gttctcacc ttttcaatct tcaactccaat 180  
 ctacaaggag aatggatgaa gcgatgaaga ggcaatgcaa agttaacctg tacggaactg 240  
 cttttcccat gaaggaggag cttgacaggc aaatcctgtc cagggttcag cggcctcctg 300  
 gaccaattcc ttcttcaatg ctggggttgg agactgttac aggaagtgtt gatcactttg 360  
 gttttgagga ttgtctaaat gacccccgtg agtcagagac tttccggcca ttagacatgc 420  
 atcatgggat gggaagttcg ccttggtcta tctaaggac cagtgtaccc aagtattata 480  
 taattaaaat tgactgttat tctagtagca gaaaacagta ttttgtgatc gaagcttctt 540  
 gtta 544

<210> 11882  
 <211> 130

<212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a04d1

<400> 11882

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 ccggacggcc 130

<210> 11883  
 <211> 560  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220136a05a1

<400> 11883

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 caaccatgtc aatgaagttg tacgcttccc ttacctttgt ggtgtggctt ttcattggcca 120  
 catcgccct agccaatac gttctcgaca cataccgcga acgcgtcgac agcgatgatg 180  
 agtactacat ccggccagcc ataacggaca acggagggcg tttcacattg atcaacagaa 240  
 acaggtcgtg tcctttgtac gttgggtctcg aaaacaccga cagccacta ggctatcctg 300  
 tgaaattcac ccctttttcc cgcaacaaca acgatgatga cgacgacgac ataagggtga 360  
 atagggacct cacagtggcg ttcgatgaag tttcacaacg tgtgtgcaat ccacagaatg 420  
 gagagtgggt gagaacgaca cgaggagtgg aaggaggctt attatcactg gccgagacga 480  
 aaccacggga tcatacngta actagtatag aattgtggag acagagaatg ctggtatcta 540  
 taacattcag tgggtgccta 560

<210> 11884  
 <211> 128  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a06a1

<400> 11884

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 agagaaag 128

<210> 11885  
 <211> 319  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a07a1

<400> 11885

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 tgtgatgcga tttctgtaat gaaggctggc agactaaggt tctcaaagcc taataaatac 180  
 tggggtgaaa attctcagaa gaggtatgtg ccacatgcag aggattctgt tcttgggaatt 240  
 gttgtagact ccacatcaga taactttctt gttgacataa aaagggcagc tttagcattt 300  
 tttcccatgc ttgcatttg 319

<210> 11886  
 <211> 439  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136a08a1

<400> 11886

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 ccaacccttc gccgcacggt gggcgtgggt ctctgcctgc tgaagggtgt agcccttgag 180  
 actggctctt cttagctggc ggtggctctg ctgacttcta gcttcttctt aactatgttt 240  
 tctttttact acttttaagc taccttgatc tcaaaataac atacacaaac actttcttac 300  
 ttcataagat cacctttgct tgatcttgta cttgtccttc actaaaatga tgctcaaaat 360  
 caagagggtt cccactgtcg tttccaactt ccaaaaagac gacgctgcag actctcctcg 420  
 taccgtcaga agctgtgga 439

<210> 11887  
<211> 429  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220136a09a1

<400> 11887

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tgtcgaaactt gcagagcaac tcgctcctag tgatcattgg ttaatacaga ccatgaatac 180  
agtctatgag catgctggag atcttgtgaa tattcagggtg gcccataatt taatgcgatt 240  
gctcgggtgaa cgacttggag aggatgatga tgctgcatat agtcagttga gatcatgtgc 300  
tgtagagtca tacctgcaac ttattgcgga gccaaagctt ccgtcagcat ttcttgaact 360  
aatccgttgg gttctggggg aatctggcac agctgatgga gagcattgtg ctttctatat 420  
cactgggaa 429

<210> 11888  
<211> 395  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220136a10a1

<400> 11888

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gcgccccggg gaacttgccg tgcccgatc tggttgcaga ttctcttctg aagcctacag 180  
tgcagagctg aagcaacgct cacattcttc caaaatgggc tgtacagaac aaagttcttc 240  
accagatac tggatcactt caatctcaat ccccaaagca gtcgcactat tcagcaaagg 300  
tatgtgatca acgatacctt gtggagcggg gccaaagaaca atgcccgaat cttgggctac 360  
actggcagcg aagggaacat gcaatcgcg acaca 395

<210> 11889  
<211> 455  
<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136a11a1

<400> 11889

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 tggcccagcc taagcacaag ctactttccc ataataaatg ggctgtccgg aagatcttgc 180  
 aggcaggaac tactgaccca gtgggcacta ttatatacga gcaatatgac acattcatat 240  
 caggcaccat taacaaggcc cctgggaggg tgccgaaaac gatgcttcaa tatcaggtac 300  
 accggcaatg aagggaacat agaatgggtc atacttgaca tgctgctgct gtggattcat 360  
 ggtcatatac tgcacgtacc taagaatacc atcaggcctg cattagatga aaaatgagac 420  
 ccatactact gaaacttaac agatgaatgg ctaca 455

<210> 11890

<211> 509

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136a12a1

<400> 11890

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 ccggcactgt ctcaattcaa ggtttaccat gtgggtgtgg ggttcaattc gtcccctaac 180  
 cccattccca tgettaccgc gctccgtcgc agccgctgtg ttgtcctctt tcgcctgcga 240  
 tcctattcct ccacagactt caaaatcacc gccacgtcg aaactgactc caccgttcac 300  
 ttggagcgtt gctttaacgc gccgctcgt tcccaccttc cttccatttc catgaagggc 360  
 ggccagtatg gtgccttcgg tgccgttacc ttggagaaat ccaaacttga tatgtcgcaa 420  
 aagcaaacaa ggtctagccc cgagctagac atctggggag gctggggaga tatcggaacg 480  
 aaaatcaatc atggtggcgg tgatgaagc 509

<210> 11891

<211> 490

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136b01a1

<400> 11891

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tttctgatac cgacacacag caggaccatg atgcggtttg tgatgtcttc aagctccaaa  120
cgtgtgtcta agtgcttcat tttttgttc ctggcttccc tacactttgg atccaacgct  180
caactcttac cacaagatga agtgaaattg ctacaagcaa tatcagacaa ggtagagaac  240
ctgaattgga aagttacaca acattcttgc aacggggata gaggatttga taacaggaac  300
atttcaaggg ataagtctca aatcataagg aatgtcacgt gtgattgctc tttcaacaat  360
aacactactt gccatgtgac atcaattgcg ctcaagggtc tcaatatatc tggacctata  420
cccgatgaat ttggaaattt aactcgacta gaaatacttg atctcacttg gaataatttc  480
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<210> 11892

<211> 613

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220136b01d1

<400> 11892

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aaataggtat caaattgttc ctgttctgct catctagtgg tttcttgatc tctgtctcat  180
tgaacaagtt actaagctat gttataccct tcccccttaa aaattcaagt ttgaataaga  240
atattatctg gttcaattgt tttaccattg tttatctttc tctagcctgt tcttttcttg  300
aaattcttga attctgtgta aaatgtataa ttatgactat gttcttttagt gaatagtgat  360
taactctcaa tatttgttat tgtcgcatcc ctttcattga gtagcttgta gaaataagtc  420
atccattttt tcatgatatc ttgcataatt accaaagctt tntacacctt ctcttctttt  480
ntaatgagtt tcaattgacc tacttttgcc tttgctgtgc ttcttatact tccaaacctt  540
acatagctga tcacctgacc ccaggtcctt gcanaagaga aattatttgt atgctgatac  600
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gtcaaacata tac

613

&lt;210&gt; 11893

&lt;211&gt; 495

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: jC-gmf102220136b02a1

&lt;400&gt; 11893

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 cacgcatgca ttcatttgtt cagctgccac cgttctcggt atctcatgtg atcttcaaag 180  
 tttgttgctt tcagcctttt caagctgtcc atttaagttt ttgagagcaa gcagtttttt 240  
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 atgagaaaaa agagtggatt gtctgatggg ggtaaataca gtttcaagat gaaacatctg 360  
 ccttttctgg cagttttgtg cacgataatg ttattcattg tgtatagaac cacaagtat 420  
 cagtatcacc aagaagagat tgacaaaaaa tggagtttct ggggacaacc aaaggtgtat 480  
 ccttcaactt atggg 495

&lt;210&gt; 11894

&lt;211&gt; 578

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;223&gt; Clone ID: jC-gmf102220136b02d1

&lt;400&gt; 11894

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 aggctcaag gatacaactcc ggacttaatt acgttatattt gttagggta ccgtttcgag 120  
 atattctaaa cttgtactga aaaatatgga gggaaaagaa gaggacgtaa gagttggagc 180  
 caacaggtac ggagagagggc agccaatagg gaccgctgct caggctaaag actacagaga 240  
 gccaccgtcg gcgcctctct tcgaaccggg agagttgtca tcgtggctctt tctatagggc 300  
 tggcatagca gagtttgtgg ccactttctt gttcctctac atcacagtgc tgactgtgat 360  
 gggatgtgtt caaatctaag agcaagtgtt ccactgtggg tatccaaggc attgcttggg 420



cttttggggg aatgatcttt gctcttggtt atttcactgc tggaatctca gggggtcata 480  
 ttaaccagc agtgacgttt gggctgttct tggcacgcaa gctctctctg acaagggcaa 540  
 ttttttacat aatcatgcag tgcttgggag ctatatgt 578

<210> 11895  
 <211> 555  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136b03a1

<400> 11895

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 tctcttcttg gatttcttgg aggccttgcg tttgccccga catcatatct tttgccctgt 180  
 atcatatggc ttaagcttaa aaagcccaag aaatttggct tgtcttggac aattaactgg 240  
 atctgcatta ttcttggggg agtggtgatg atattatctc caattgggtgc tctaaggaat 300  
 atcatactat cggccaagaa ctacaagttc ttctcgtaga ctattgatgc aatcattgat 360  
 ttcccaactg ttttaaaagt tagatgggtg aaactaaata acaagaaagc atttacatac 420  
 atgctttatg catagaatat agataataga tagcttcata ggatttgtag aagtgataga 480  
 cacacaacta gccttgcaca aaattgaagc aactatcttg ctcactatgt agaattgata 540  
 tcatttatgg agaca 555

<210> 11896  
 <211> 444  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136b03d1

<400> 11896

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 cttactacaa atggaataac ttgaatcctt tgtggctgat gtctttctct cacctgaaat 180  
 caacttggaa tctgcatgag cttctattga agagatactt tgatcaagat ggatgggaaa 240

aactctcttc aaataactag aagtgggtatt ggtgcttatg atgacgatgg acatgccaaa 300  
 aggactggga atttgcatag tgctgtagct catatgatta ctgctggtat cggctctggc 360  
 gatctttctc ttgcatggag cactttccaa ttaggatgga ttggagggcc atttcccttg 420  
 ctttggttg tg caattgtcac ctat 444

<210> 11897  
 <211> 535  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220136b04a1  
 <400> 11897

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 tcgcctcgct ttctcagctg gaatcgggtg ccttcttttt ggctatgaca ccggagtgat 180  
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 tcaggaatct atagttagta cagcaattgc tggagcaata ataggtgctg cagtgggtgg 300  
 atggatgaac gaccgatattg gaagaagaaa atcaatcctt gtagctgatg tcctctttat 360  
 agttgggtca gcagtaatgg ctgcagcacc tgtccctgct gttctcatca taggtcgagt 420  
 ttttggtggc cttggtggtg gaatggcttc aatggcatct cctctctaca tttctgaggc 480  
 ttccccacc aaagttcggg gagccctngt agctctcaca gtttctcat cactg 535

<210> 11898  
 <211> 133  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220136b05a1  
 <400> 11898

aaacggctct caaaacgctg attgcagttt ttgcacgact gcatccataa cacggggcgg 60  
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 agagcagaca aag 133

<210> 11899  
 <211> 473  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136b06a1

<400> 11899  
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 ttgggtgagt tgtggaccca aagagaacat caactccttg gtgagttttt catgcaggag 180  
 tagtagtggt ggtgaaagaa cacaaaagag attttctgga atcagttttg ctagtggtag 240  
 ttctgctttt tcaagtgcag tggcagctac tgagacttca agatcttcag aggagagggt 300  
 ctatgaagtg gttctgaagc aagcagcttt ggtaaagaa cacaacaggg gtacaaaaat 360  
 agctctggat ttggacaaag atgttgaggc tgatttaaca atgtggatct gttgaatgcg 420  
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<210> 11900  
 <211> 513  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136b07a1

<400> 11900  
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 agggagggca atgcgggaac cagatcggtt cgaagtcttg ggaagtgggtg tgcgacgagc 180  
 acggcataga tccgacgggg aagtacgtcg gaaactcaga tctacaactc gagcgctga 240  
 acgtgtacta caacgaagct tcctgcgggc ggtttgtccc acgcgcagtg ctgatggacc 300  
 tggagcccgg aaccatggac agcgtgcgga ctgggccgta caggcagata ttccggccccg 360  
 acaacttcgt gttcgggcag tccggcgcgg gcaacaactg ggccaagggg cactacacgg 420  
 agggcgccga gctcatcgac tccgtccttg acgtcgtgcg caaggaggcc gagaactgcg 480  
 actgcctaca ggggttccag gtctgacact cgc 513

<210> 11901  
 <211> 333  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136b08a1

<400> 11901

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 agggagggca atgcggcaac cagagcagtt cgaagccccg gcgagtgtcg tgcgacgagc 180  
 acggcataga tccgactgct caccacgtag aatactcaga tccacaactg cagggcgtaa 240  
 acgtgcacta caacgagcct tcctacagac tgatagtccc acacgcagtg ctgatagacc 300  
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<210> 11902  
 <211> 471  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136b09a1

<400> 11902

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 catcagtcac acatacgtaa accataagga gtacagacag gaggttctac gtctacttgc 180  
 tacagcatag caaaagctta cttcaccaga ttatctgagc attagccaat gtcgtatgac 240  
 ctcggtatgag acataggggtg tagcaagcat actagagaag cgatgacatt ctgaaaacaa 300  
 ggatgatgca ctatcggtcat ttcaaatagc atttgatctg gtagagaatg agcaccatac 360  
 tgaactgtaa atgctagaga tcgccttgca ccacctaaat actaaacttt ggaaactgca 420  
 cagtcaaaac ccagtgcagc agctaccact caaaatgccca acgcgaatgg a 471

<210> 11903  
 <211> 491  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136b10a1

<400> 11903

cttttagctcg tccgcttttc tatgaacatc ctccatacaa agcacaaaat ccgcatacta 60  
 tctgtgggat ctttacaaca tgcacccgcg atttctacga tcccttcaca tgggccattc 120  
 tgtgcaccct tgccttaccg taaagaacct tagcctgata tctcaacatg cgcttacgat 180  
 ttogtctaca atggccgtgg ataccacttg ctgcagaacc gactagatat taaaggacta 240  
 caccgcccac tgaaccgaca tcggacgagc tctctatcaa gacgtggatg acttctaccg 300  
 accatgcat ccatataagg agaacttgcg cctgtatcgc atgcagagtg cttcatctga 360  
 cgggacatta tcggcataag aagttgctac atagcttccg gagcctgcac tcggaatcac 420  
 tagagctagg gatggcatga accgctgggt ctggactcct gtggcagctg cgcacagtga 480  
 ttcacggttg c 491

<210> 11904

<211> 521

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136b11a1

<400> 11904

gaaccaagct ctcatctca cctagcggtc ttctgctgcg caagaagaag acgcatggcg 60  
 actgggagaa acttgcggtga gaatggacac ggtcctacgc caacggaagc ggccccagtg 120  
 gtgaagcgct atgctcctgc caaccagaag aaaccggtca gcgaacaggc gcatagcatg 180  
 tgatcggctt gatcggacag acagaaccgg gaatgactga gagaggaatc aagatgctta 240  
 tccaggaggt gcacacattg cagatcacgg agatgctggc agcaatcatg gtggtaatga 300  
 gaatcactag ccaagagtaa tagctgtagc agggcgaagt tgtatgcgca gctggccaca 360  
 ttgcaacacc gcgctggacc tgagcccgac gatcacgggc ccaaggctgc gattctcctc 420  
 attgcacgga acaggcttcc tttggaacag gtatgtgaag ctcgctttta gggaagcaac 480  
 cgcacatctg agaaacgtac actgcaagcc tgagtgttct t 521

<210> 11905

<211> 596

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136b12a1

<400> 11905

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ctcgagccgg tttgttttct tctttttcgg ttcttgatct gaactcgatt cgattcgcta 60
ttgccggaaa atgagtcctc cggcaagtgt cgggtgatga tcgctccctc gagaggttgt 120
tgaggttatc gttgttggtc ttcgaagtca tgggttcgat ctgagggtgt gtcagtgtc 180
acagcgcgac gctgttgagt tgaaatttcg ctgggtttga gttgctttgt gactatTTTT 240
ttttctcggc aaccaaacag gaggattcaa aatttgcact gattaattag taaagttttg 300
gcgctctcga gttcgttttg gtgaggattc tgattaagga aatttttctt ttattcattc 360
ggaggagaag cgtctcaaac tctctctctt tctccctcgg ttgtttatTT ttgaaatttt 420
atTTtctttt atcttctatg tagtactgct ttacgtgtga catgtgaatt ggaatgctta 480
ttccagctta tacaaaacag agacggatct ctttctattg ttctcgcttt ggttcttttag 540
cagtagcatc atcatcatca ccataccttg ttcagattct gctactttta ccacaa 596
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<210> 11906

<211> 320

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220136c01a1

<400> 11906

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agcaaagtag ggattcggat ttgcttcatt aatggcatgc agtaacctct cttccaaatg 60
ttgttttagat ggatactgct tgccattcat gaaccaaag agggattcgg atttggttga 120
caagtttttt ttttttctt ttttcttttt gggggggttg gggaggaaac aaactgtatt 180
acatttttag gttagaagct atttaaaagc tttttactgg ggggttgacaa gatttaacat 240
tatatcatgt taatatgttg tacagttcta tatttgcaat gggaaatgcc ttcggcggtt 300
tttcaattnn naaaaannna 320
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<210> 11907

<211> 557

<212> DNA

<213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220136c01d1

<400> 11907

gcaccacatt cacctgaggc ttccaaagca ttggcttccc ttgcagcatc cactgctgct 60  
 gcttcccttg gcatgtcaga aatgcttggg aaccccatca acttcagtgg tgccacaagg 120  
 ccagctccat ctgcttctag tctgcctnc ttttaagactg tggctctttt ctccaaaaag 180  
 aaggctacac caacacctcc aaaaaaagct gctgctgctg ctcttgccaa tgatgagctt 240  
 gccaaagtgg atggctcctga cagaaggatc ttcttgctg agggctctct ggaccgatcc 300  
 gaaatcccag agtacttgac cggagaagtc cctggagact atggttatga cccatttggg 360  
 cttagcaaga agccagaaga ctttgccaaa tatcaggcat ttgagttgat tcatgccaga 420  
 tgggcaatgc ttggtgctgc tggattcatc attcctgagg cttcaacaa atatggagca 480  
 nactgtgggc cagaagctgt ttggttcaag actggagctc tgcttcttga tgggggtacg 540  
 cttgactact ttgggaa 557

<210> 11908  
 <211> 483  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136c02a1

<400> 11908

agcgaccacg ctgtccattc tttgccacct ttaatttttg tcctttggcg acctccatcc 60  
 atccatgaac ttctccgaca acctccttcg gtagacattg gagtaacata ataagatgga 120  
 ccagcaaaac caaaataaca ctccagatgg ttcaggagag gtgcctttga agcgtaaacg 180  
 tggctgtcca cggaaatacc caaagccaga ttcagaggag agttcctata tcctagttag 240  
 tcaaaataga aggcagaatc ctgttcgtgc tgaacaagct ccagtacctc ctggatttga 300  
 aggggttaat ggaaatcaac agcttcaaag ggtcaagag aatcattcaa ataatgcaat 360  
 ggtgggccag ctagtttccg gtgtaattga ggctgcattt gatgcaggat atttgcttag 420  
 tgtagagtt ggtgattcta atactacttt gaggggggcta atcttcaagc ctgggacgat 480  
 acg 483

002220"ETFE560

<210> 11909  
<211> 602  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220136c02d1

<400> 11909

gttaaaaatg atgggggattc aagcttgaac gtctttgcga tcaaggctag tgttcacctt 60  
ccttttgatc accgtatgct ggttcaaaat cttactgcac agggttttta caatggttct 120  
gtaccagcct cagcacaagc tactttccca tatttatttg cagtcagtaa gttcttgcag 180  
gcaggaactt ttgaccttgt gggcactatt atatacgaga tagatgaaca tccatatcaa 240  
agcacctttt ttaatggcac tgttgagggt gttgaatctg gtgcttttct tagcatggaa 300  
tccgtttttc ttgttactct tgggggttgc ctcttgtcc tctgggggt atggattcat 360  
ggccaaatac agtacctatc taagaaaaca aagagggtc caaaagtga agttgggact 420  
aagactactg atgcttcaac agatgaatgg ctacaggga ctgcttatac tcagtctctg 480  
tcaagcaagt caaagaagaa gaagtagata aacaatttct cacgttcagc cactcactag 540  
actctacat ggatatggca tacagaatcc tgtaactgac taggggtgag tatgagagaa 600  
ca 602

<210> 11910  
<211> 464  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220136c03a1

<400> 11910

accaaagaca gcacatggga ttttaagtct cttgctgagt tgcaaagcca tcatcaatcc 60  
aatgttgtgt tactataagt atttaacagc atagacacac acccttttgt tctggccacc 120  
ctcaggtgtg aatacaatac cttagcatga aattcaactg tgtgggacta catgttgaag 180  
tttgatttgt gaacgaggtg cgctaagtc ttcttaagta ttgcttttct gtcactttcc 240  
ctctgtgttg gtttgctctg atcacttttg tctgcattac aacctgagcc tcagatctga 300  
tctcttgatc caaaaacca tggctgagaa ggtgaccatc atgaaactca aggctgacct 360



tgagtgtgag aaatgctaca agaagggttaa gaaacttctc ggcaagtacc ctcatattcg 420

ggaccagaag ttcgatgaga aggaaaacat ttgtgttcat caca 464

<210> 11911  
<211> 212  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220136c03d1

<400> 11911

cgaaagaggg cggctgatgc aaataggac tggacggaaa ccaccaaaga gggncgagaa 60

gcgcgttata gaaaacctgt tgaccggggg agccctccat aacccgagcg ggcgccacag 120

cggcggagcg ggacctcttg agccccctag agagggggaa aagcgcgctc ggggcaaaca 180

cgggcacaga ctggtcccgt gtgaaaaacg gg 212

<210> 11912  
<211> 572  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmfl02220136c04a1

<400> 11912

gtgggttagga ggattggcaa ttttcttgat cttgtatatg caaagggtat ggaagatttg 60

ctggaaccaa ctcttgggtt gtgtaaggct tttctagcac gttcagttag ctgcacaaaa 120

ggcttcagct acacaacaga actaattctc ttaggtgact gtcctcccga gttgagtgg 180

ggcgtgtcg atccccaaca atgcataaaa gatatagcgg actttggaag caatgtcgg 240

gtcttgctag agttgagtgc ctctgcagaa accagtattg ctgatatagc ttctgaatgt 300

gttgtcttac tgctcaaggc agctcctaga gaagccacca ctggtatact aaccaatctc 360

cccaagggtga ctgtgacct agagagctgg agtagaggca ttcctcactt gatcatccag 420

cgaatgcttc acgcttttagg ctatgcttgc angcaatact tactgcatgc aatgatatta 480

tcaatatcca aacctgagat ttcaagaact gaagtcatag tttctgaact caaaaattca 540

ggtgtaccag ctttagccaa gacagctggg ct 572

<210> 11913  
 <211> 460  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136c04d1

<400> 11913

cagtactgca cgcgcccttac ggaggcagcg cctcatcaac gcgaactcga cagaagagct 60  
 ggagcgggga ggatgttgat gccgaagcgg acggcgcgag ctatactgac gcgaaacgtg 120  
 tgcctgggggt gaactacata ggaccaccca aggctgaacc cgaacaatca gatgtcacia 180  
 cggagagtaa gcaatgtctg acatggcttg atcaacaacc aagtagaagc gtgaggtacc 240  
 tgagttgtgg aagccgcgga tctggctcag tgtgacaact gagagaaata gcaagagggt 300  
 gggagaaaag tggccacagt tcatgatggg cagtgaagag gccaacacaa gactacaaaa 360  
 caaagcctat acacgacaca agaacagcaa caacaacaat ggattccgag tagagttcat 420  
 ggttgccaag agggctcatc gagagaacca atgacagggg 460

<210> 11914  
 <211> 197  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136c05a1

<400> 11914

cggaggtggt gaaatccaac tttttactgt gtgttgggggt ggatgcgcgc tctcagtcta 60  
 ggtgaagcag gatgtgcacc ggtccaacac agttgaaaac gagggagatc ctggacgtca 120  
 cgggagggct agggggcgac cagatcgat caacagcctg gtgagtggtc gacgacgagc 180  
 tcgggatata cccgacg 197

<210> 11915  
 <211> 138  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136c06a1

<400> 11915

cggaagcgca aaaaagcaac ttttcacggt gtgaccgacc agaaccacac acccgggcca 60  
 cagggagcag caagagcacc gaaccacac aggccaaaaa gagggggacc ccggacgccc 120  
 agggaggagc aaggccgg 138

<210> 11916  
 <211> 107  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136c07a1  
 <400> 11916

cgggggtgta gaaaaccaat tttttacttt ttgaggggcc ggacgcccgc acccagggga 60  
 aagggagcag gcaaagcacc ggacaaccac aggggaaaac gagggag 107

<210> 11917  
 <211> 556  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136c08a1  
 <400> 11917

tgtatgtcac cattttactc ggaggctgtt catccagact ccaaagttag acagacgatt 60  
 cagtgcgtta gttgtggttc aagcatgttg atcaatggta acagaggagc agcctcatgc 120  
 catgttaata ccaatggagt actttctcat gggatatggc ttgtacaagc catccaagct 180  
 gagtgtcagc ccaagaagcc ccttgagccc atcttgcatt tctcccgagc ttactcgcc 240  
 agagagtatg ggtttgaaat tgaaacccat aaagacacga atttctctgg aaatctagaa 300  
 gtagatgaat aaaaggctgg gaaaatggtg ccccttctca tctgttcatg aaagaacaag 360  
 ttcatgattg tatggttagt gggaatgaat gaggggatgc catgccagat cgttgtagat 420  
 agggggagat aaggaaataa gaaatcaaca aaagaggaaa gaaatgggaa gcggttagta 480  
 gaaatcaaca tatagtgatt ctttcatttg taatcaatca tagatcatag attttagtc 540  
 atgagtttca aacctg 556

<210> 11918  
 <211> 485  
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220136c09a1

<400> 11918

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gccacaacgc gctattaggg catagacgaa ctacgcggca aacacaccac gagacggcgg 60
ccgaccttag atgttaaact ttaaaaaccc aaaccctcaa aagccggaaa cngagaaaca 120
gacaacaggg aaggactcca gggacaagca acccgagaaa acgacagaaa cagacgaaag 180
ccacgcgaaa acgaccacca gagcccgcaa acagcaaggc ccacggaccg gcccacgaaa 240
ccaacagcac accacccaac agccaggacg acgacgaaga agcaggacac caaaggccga 300
agcacaacga gaaagacaaa ccgaccaccg aacaaaaacg aaaccaccac cagaagatac 360
agcctaaaaa gccagccctc caacaccacc agcgcacaca gaagagcaac cgggcccgtc 420
tccccatcca gaccggggcg caaatccact cagaccgaca aaggggaaat gcgaacgaac 480
ccggg 485
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<210> 11919

<211> 446

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136c10a1

<400> 11919

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gacatcaacg gactgcttga tgctattgac agaatttgca cgcgtacgag cgactaaac 60
gcgggtcgag cgatgatgga gagagatgaa gagaaagatg ctctgaagc gagtgtgctg 120
cacggcggtg tgaggggaac gattgacgac gagcagcgcg cgtatatgga ccggggaatc 180
gtggccgaac aggatggaac caaagccatc gggcaatatg ctgaaaaccc ctgcagagcc 240
ctctgatgtc accgacagta ccgaagaact gagcggacat atcgtcactc ccaggagaaa 300
gcaacacca cgttcatagc taccaacaaa cgccagagg cacaccagac gatgtggatc 360
caaagacctg gctgcatgag cgcaactggc catacgaaac gaacatgagc gaacaagatt 420
cgtacctctc tactttgctt tgcggg 446
```

<210> 11920

<211> 404

002220" E F F E S S O

<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220136c11a1  
  
<400> 11920

tttatttttt atgttttttt aaccaaagtc ctcttaaacc aaaaacgcca actcccgcaa 60  
cccaggcgac cgtttttaagg tctaaagccc aacacaaacg accaagccac ctttcggggc 120  
aagtaccact tgactaccac caccgcccac accctaaaag cccacccgat gcaaaacaag 180  
cacgaaaaac ataagaggaa cacacagacg ggaaaaacct aaaaactctg acaaggaaac 240  
gatctcatgc tacaagaaaa agaaaaaagc gccattcat caatagcact tgcaaacgga 300  
actctagaac ggtggcagac acacacagct ctttgcaaac ttactcaga cttaacggtg 360  
gggaaagcga gaggccaagc caagttcata agccttaaaa agac 404

<210> 11921  
<211> 571  
<212> DNA  
<213> Glycine max  
  
<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220136c12a1  
  
<400> 11921

ttttgaacta ctctacaaaa tgaccaagtc ttctaagcc gaagtgattg ttgacagaat 60  
gattgattac atgattagca taagtgatga tcattataaa acatatatag catctcgatg 120  
tgtcgaactt gcagagcaat ttgctcctag taatcattgg ttatacaga ccatgaataa 180  
agtctttgag catgctggag atcttgtgaa tattaagggtg gcccataatt taatgcgatt 240  
gattggtgaa ggatttggag aggatgatga tgctgcatat agtcagttga gatcatctgc 300  
tgttgagtca tatttgcaaa ttattgggga gccaaagctt ccgtcagcat ttcttcaagt 360  
aatctgctgg gttctggggg aatatggcac agctgatgga aagtattctg cttcctatat 420  
cactgggaag ctatgtgatg ttgcagaggc atattcaaat gatgaaactg ttaaggcata 480  
tgccgggtttc agcattaaca aaaatntatg catttgaaat agcggctggg aggaagattg 540  
atatgctacc tgagtgtcta tcttttattg a 571

<210> 11922

<211> 568  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220136d01a1

<400> 11922

ggaagaacat ggctacagga acggatcttt gttgtttcat cctcccagaa gccgaacttt 60  
 tccctacaag gttccaagtg aagtcatacc ttggaaggcc atggaagcaa ttctcaagga 120  
 cgggttgatg ggaatccacc gtgggtgact tccttcaccc cgaaggatgg tgcccatggg 180  
 ccggtgaaca cttcgaagac acctgtact atgctgaata caacaacgat ggacctggtg 240  
 ccaacgttaa cggaaggatc aagtggaagg gttaccgtgg tcttattagc cgcgaagaag 300  
 ctaccaatt caccctgcc cagttcctac aggtggagc caacggtgga agcgactggt 360  
 tgaaagctct ccgtgttctt cagcactta gttcatgaa ggcttaattg aaattacaca 420  
 aacacatata catgcatcat caattgagta ctgtagaga gtgtgatgat gagggtcata 480  
 gtccgtagac caattgntat tctttggatt tatctttgga ggtctaccgg anatattntt 540  
 aatgaaaatt tttaaaattg ctttgatt 568

<210> 11923  
 <211> 596  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220136d01d1

<400> 11923

ctgaggagtt gaaattaaat tatccactga ttgttggtt ttatctccgc actccgtctt 60  
 catcagtcag catcaccacc gctccaacac aggggaaaat gagggagatc cttcacgttc 120  
 agggagggca atgcgggaac cagatcggtt cgaagtcttg ggaagtgggtg tgcgacgagc 180  
 acggcataga tccgacgggg aagtacgtcg gaaactcaga tctacaactc gagcgcgatga 240  
 acgtgtacta caacgaagct tctgcgggc ggtttgtccc acgcgcagtg ctgatggacc 300  
 tggagccccg aaccatggac agcgtgcgga ctgggccgta cgggcagata ttccggccccg 360  
 acacttcgtg ttcgggcagt ccggcgcggg caacaactgg gccaaaggggc actacacgga 420

gggcgcgcgag ctcacgcgact cgcctccttga cgtcgtgcgc aaggaggccg agaactgcga 480  
 ctgcctcagg ggttccagggt ctgccactcg ctggcgaggag gaaccggggt ccggatggng 540  
 accgcttttg attccaagat cagagaggag taccctgaca gaatgatgct caccct 596

<210> 11924  
 <211> 289  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220136d02a1

<400> 11924

gggaagtgtt cacagcaaca tttttaccta tagttgaagg gcaggcgcg cgcgggggac 60  
 gagggagcag ggaaagcaac gaacaacccc agacgaaagc gacggagatc ctttacgtct 120  
 ctggaggggt aaggggcatc aaaatcgggt caacgtctgg tgggtgaacg acccccagca 180  
 cggaatctga cccactgagc tacacgaact aaactggcac cccagctgc tgcgccgtga 240  
 tcgggggggac aacgagtgtt attacagaat gtaagggcaa cgcccgcag 289

<210> 11925  
 <211> 579  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220136d02d1

<400> 11925

gatccatgta gccgatctca cctagtggga ttatgctttg ttgttggtgt tgtgggtgtg 60  
 gttttgtgat tattgggctg ccatggatct ggttggatct tctggtttga gtcctacagg 120  
 gtccaagtga aggtcaaagt ttcgtttttt aatgggtgag tgattcagct gctgaatgag 180  
 tttgaaatgg tgggtcagtt ttagctgaaa aaaggggtgt gaggatagaa aatgaagcgc 240  
 aaggtggttc agcacaagtg gaagaagaag ctttttgctt tgatcttggt ggtgttttgt 300  
 ttaggaagct tggtgtttat gcagacacgt taccatcatg ttgcgggggtt ggtttcattg 360  
 caacaccgtt ttgtttctga gcccgagggt caagggccca aggttgcggt tctcttcatt 420  
 gcacggaaca ggctcccttt ggaaatggtt tgggatgctt tctttagggg aggcgatcgc 480  
 aaattctcaa tntttgtaca ctgcaggcct ggggtttcttc tcaacaaggc aacgactaga 540

tcaccatatt ttttgaatcg tcaagttaat gatagcgta.

579

<210> 11926  
<211> 233  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220136d03a1

<400> 11926

gggaattggtt gacaccaaaa tttttactgt tagttgaggc gcaggcgcgc cctcagggaa 60  
gagggagcag ggtaagcacc ggaccaccac aggtgaaaac gagggagatc cttgacgtct 120  
cgggagggct aaggggcaac cagaaacgat caacagcctg gtgagtggac tacgcccagc 180  
acggaatata gccgactgag cagcacggag gaaaccggca tccacagctg gtg 233

<210> 11927  
<211> 515  
<212> DNA  
<213> Glycine max

<223> unsure at all n locations  
<223> Clone ID: jC-gmf102220136d03d1

<400> 11927

aaaacctata gcgaagagcg tgaaggcacc tgctggcggc catgacattc aagcgcacga 60  
acggaggctcg aaacaaacac ggccgtggcc atgtcaaatt catacgatgc tccaactgcg 120  
gcaaattgctg cccaaggac aacggncatc aagaggtttc ttgtgaggaa cattgctgaa 180  
caagctgcag tcagagatgt gcaggaagcc tgcgtctatg aacaatacac gcttgcgaaa 240  
ctatatgtga agatgcagca ctgcgcttcc tgtgctatcc attctcatga tgtgagggtt 300  
cgatcccga ctgataggag gacgcgtgag cctccacaga gagttatcac gcgcatggta 360  
acacttttta tagccatctc tatatagcca aatggagatg atatagagag tgacatttat 420  
gcactcagaa gagtagttat ggccgaatgt acagaatgtc atgccattat taggttggtt 480  
aaagatgaca ctgaatatgc tatactctga cctta 515

<210> 11928  
<211> 169  
<212> DNA



<213> Glycine max

<223> Clone ID: jC-gmf102220136d04a1

<400> 11928

cggaagagca aacccccaaa ttttaagcgt cagcagggga gcaacaccac agccggggca 60

gaggaagaag aaaaagaacc gaacaaccac aaccgaagag gaaggggaaa ccgcacccac 120

agggacgagg aagccgcaac cagaacgcac cacaacgccg gaaagagga 169

<210> 11929

<211> 563

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220136d04d1

<400> 11929

ggtgaagtca aggtttgtct cttctgggcc gtcttgatct tctacgcaga cacataacat 60

aacacagcgc acctcttctt cttcttcttt ccttcaaatt ttcaacttct tcatccattt 120

tgtgctccaa acagcacaaa cacttgaatc acaccgtctt cgctttctac tcatctaaaa 180

gatagagggt catggggtgc tttggcttct gcaaaggaga tgatagtgtt acagttgctg 240

acagaggacc tttcatgcaa agcactccta ctgggaaccc cagttatcat ggaagacaca 300

cagcagtaac tgctcctcgg actataaatt ttcaacctat tgctgtccct tccatcacag 360

tagatgaatt gaagtctttg acagataatt ttggctcaaa atatttcatt ggtgaggggtg 420

catatgggaa agtatatcaa gccacattga aaaatgggca tgcagtagta ataaaaaagt 480

tagattccag taatcagcca gagcaggaat ttctttctca ggtctncatc gtatcaaggc 540

taaagcatga taacgttgtc gag 563

<210> 11930

<211> 535

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136d06a1

<400> 11930

attaattgca agaacggcac tttttcgcat ggtgaagacc ccacccgatc tctacactct 60

aggggttgcg atagaaagcc atgccagaga ctaatatttt tggcatgctg tttggccaaa 120  
 cactcccatt ccaagttcat tgcgagatct tctaaagcct ggcctgcaa gtgttgaaat 180  
 cgatgatcac cctatgcaaa ttgaagaaac acagtaccg aaaaccttct tctataaaga 240  
 agaccttcat ccaggcaaaa caatgaaagt acaattcagc aagcctccct ttcaacaacc 300  
 atgggggtggt ggtacatggt taaaggaaat taaagacact actaaagaag gatatagctt 360  
 tgaagagcta tgcacatgaaga aagaagccat tgaggagaga gagaagtttt gtgcaaaatc 420  
 cttgggaaca gtaattggtt ttgccatttc aaagctggga aagaacattc aagtactttc 480  
 aagttccttt gtcaataagc aagaccaata cactgtggaa ggagtgcaga atctt 535

<210> 11931  
 <211> 556  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220136d07a1  
 <400> 11931

tgccatttca atccccagtt tcttcttcaa tgccctctta cgagcagatc ccaattctcc 60  
 ttcccagttt caaacccctaa ttccctcatt cccatggcct cagaagagcc cactgtcgcg 120  
 gtggaaccg ctcccgaacc tgccaccgtc gagcctcccc cggaggagaa ggaggagccc 180  
 aaacctgaag ccaaggctaa gaaaaccaag gaacccaaac ctaaaaaggt ttccagacca 240  
 cgcaaccctt ccaatcatcc ttctacgag gagatgatta aagacgcaat tacctcgctg 300  
 aaggagaaaa ccggttcgag ccaacacgag attgcaagt tcatcgagga gaagcacaag 360  
 cagcttcac cgaacttcag gaagcttctt ctctaccatt tgaagaaact ttagccgct 420  
 ggaaaactcg tcaaagtcaa aggtccttc aagctccac ctaccgacc ttctgcatct 480  
 tcttcttctt cgccggcgaa gaagaagaag cccgcacctg ctaagccca acccaagccc 540  
 agcctaagcc taagcc 556

<210> 11932  
 <211> 528  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220136d08a1

<400> 11932

ctaaaaccct ccttggtctc tctctctact tgcagatcaa gccgcaccaa cegtgtgtggc 60  
 tgtggattcg gttggggctc ggagtcgcta tggcttcggc ttcgtcttcg tctccaagc 120  
 tatgcttcaa ttccgactgc aaagaagttg aagtcgaaa gacctaataa agggcggaga 180  
 ctccgcagcg gagaactagc cgagctttgt gatcgatgct gctctgcttt tgaagaaggg 240  
 aggttctgtg aaatttttca ctcaaagct tctgggtgga ggagtagtga gacttgtcca 300  
 aagcggattc attgtgggtg tattgtttca agtcatgctt ttatgctgat ggatcccgga 360  
 ggaattgaat gttatgcatg tgcccgcaaa agtattattt tgccatctaa cctgccttgg 420  
 ccacagtcct tcccccttca aaatcgttta tcggatagac ttagagacct atctggcaag 480  
 gttggagtca gctaactgga tcaggtactg ttccatggaa gcaagcac 528

<210> 11933

<211> 555

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136d09a1

<400> 11933

tgaggagcct gctgatcttt agaatttggg gcaacgacat cactagacgg cggccgagct 60  
 tggaaacttt tgtttgaaag cacaacaact tcgaaagaac aaaggcgaac gctgaaacgc 120  
 accgggggac atcaccactt acaaaagcca aaagcgggga tctgaccgaa agaacatgat 180  
 ccaaaaagac gtcaaataaa tactattgta cagacaaaga ttagttttaca aaagtcaatc 240  
 ctgtggcgcc tttgagttag tcagatggaa ttgaagtga taaaagaatt aattctggtc 300  
 gtaataacca agaaaggtct tggcagcatg caagctaggg aaataagtgg ggtcaaggaa 360  
 tatcttgggtg aaccattat tgggctcgga gctacgcacc ataaccgcta caacctgctt 420  
 atacgcgtag aagaacctct ccatggccac ctcaatgccc tgcattgcgt gcaaaacatg 480  
 aacctaccct ctctatgtct ccgagtaaac cttgctgggt cggcgtcata atcgcggggc 540  
 cacccttggg gtcca 555

<210> 11934

<211> 317

<212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136d10a1  
 <400> 11934

ctttctgctt gcgtggtaac gaaagcaacc ttccagaccc gtgtcaaaca ttacttgaca 60  
 agcgggggaa gcttctgagc ggccgcaccg cagtgggaca ccaacgctac cactgtcctt 120  
 accaacctat caagatagga ccatttgcca taaaccgtgc gacagtctga tcctcaccac 180  
 gtgactgata tgtacgaatc agaacaggac gacatggatc aatctagcac gtgacgactg 240  
 actcaacgac aatgactcca gggagaggag gaggcagatg ctgagtgcac aaagacggaa 300  
 ggtgaagatg gagcact 317

<210> 11935  
 <211> 482  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136d11a1  
 <400> 11935

ggaaaagatg actctaggcc acggaagaac ttgcggccaa cagcacacag acggggccga 60  
 cctttgatgg aagattttaa aacaattttc taaacgcaa gtgctgcacg gtggtacgag 120  
 cgtaactatt tacagaggag catcgcgct atatacacag aaaaagaaa ggggaacacg 180  
 aaaaaaaca agcaagcgga caaactgaaa aaaatcccc cagagaccac agaagacgcc 240  
 gacaaaacc caaactgagc ggacacaacc caaggcaaaa aaaaataaac acccaciaac 300  
 agagctacaa acagggaacc agggggaaaa aaacgaaga ccaaaaaagg accgggccga 360  
 acaaaaacac ccggccaaaa aaacggacat gaacgaacaa aatgcgtacc taaatagggc 420  
 ccaagaggg atagaacca aacactacag aaaaacctgc cccgcggaaa ctgggggaca 480  
 ac 482

<210> 11936  
 <211> 521  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136d12a1

<400> 11936

cttggatgga aaattccaac aagctatggg tactgctacc gaatgcagga tattagataa 60  
 actagaggat gcattttacaa ggagtgacaa tgttcaagga actttatcat attgcattta 120  
 catctctcat tcctttgcaa accttacgga gtacagactg gaggttctcc gtctccttgt 180  
 tacagtatth caaaagcttg cttcaccaga ttatctgagc atttgccaat gtcttatgtt 240  
 ctcgatgag tcagaggggtg ttgcaagcat actagagaag cttttacatt ctgaaaacaa 300  
 agatgatgca ctttcggcat ttcaaatagc ttttgatctg gtagagaatg agcaccaagc 360  
 ttttcttcta aatgatagag atcgcttgac accacctaa gtcagcctt tggaaactgc 420  
 acagccaaaa ccattgaga cagcttctac tcaaatgct agtgcgatg gacaggatga 480  
 tggtcagatg accgatgatg attctgatcc tatggatcaat g 521

<210> 11937

<211> 464

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136e01a1

<400> 11937

cgggattgtt cactggaaca cccttactgt ctattttttg ccaggggagc gcgagcaaac 60  
 gaggcagaag ggaaagtaac caacaacca acacgaaagc gaccgagatt ctttttctct 120  
 ctgtatgcct cattgtctat atcaatcggc tcaccttctc aatgattgaa cgacacacag 180  
 tgaggaaact gaacccttgt gcttatccag ctaaacaagc acaccatttt tgtgtctgtg 240  
 tactgggggg atagcgattt ttatcacaga atgtaagggt aacgtccgca gaacttcagg 300  
 tttagcaatg aagactgggc ccaagaatag ctgcaagcgt gcatcacaca ggctctgtaa 360  
 ggacacggcg aagaaccgag aggatgactc gccactgatg gttctggatc tgcagactgc 420  
 taggaaggag agccgcacgg acgatgctgc ggcgcttgac gagg 464

<210> 11938

<211> 505

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136e01d1

[illegible]

<210>	11939
<211>	541
<212>	DNA
<213>	Glycine max

<400> 11939

<210> 11940

<211> 456  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136e09a1

<400> 11940

tgcactccgg gttattatth cattagacga agtatgcacg catacgccgc atcaaactcg 60  
 gctcgagctt taatacttaa atttaaaaaa ccaaagcctc actaaccgga aaaacgaaag 120  
 cccacaaacc gagcaacact ttggagagac aaaaacgcag gagacaacgc ctcgaaagct 180  
 ggaaggccca aggaacagga aaaacaaaaa cgagagcaga aagacaccgc aaaaagcaaa 240  
 agccacaaaa cacggaaaca cggacacaac gcaaaaccga aaacagacga aggaacaaaag 300  
 cacagacaaa aaccgggact aaaaaaaaca ggggcacccc aattgaacca tacacatata 360  
 gcggcacaca agtgagacca gttcccaagg aaccaagcct aatagggaca taaggatgta 420  
 caacacccca cagggcataa acatactctc catgga 456

<210> 11941  
 <211> 612  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220136e11a1

<400> 11941

ganaactagg actcctgcta ttatgacgaa cttgcaggca tacagaccct actaaactgc 60  
 ggtcgacctt tttttttttt ttttttataa accatgacat accatatacc acttataaaa 120  
 acaatatatt catggggatc attcggtcgg atttcataga gacatactag ccaaacta 180  
 actaaaataa aaaagcaaact ctaaagagaa aaatctacaa accaataact agagaacatc 240  
 taaacttatt catcttcact acttaacctt agaagaagcc ataattatct aacatcacgg 300  
 atggtgaaat attattctct aaacacaggt tcaattcaaa cttaatcaac ctttctgggg 360  
 aggactcgcc ttgtcccaaa acttcaagtg cacagctctt tcttccagca ttgtctcaac 420  
 ttcttccatt ggaactccct tgggtactgg cacgaaaatg agaacgaaga agatgccaat 480  
 gagagcaaca gatccaaaca acatgaatgt ccattgctgtc ccaatagcca cagtcaaagt 540  
 caagaaagac tgggaaacaa tgacgtttga aacccatcaa gttgtaaaag caattcctcc 600

acatacccca cg

612

<210> 11942  
 <211> 378  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136e12a1  
 <400> 11942

cttagctgtg aaatttaaaa aaactcatgc ctcacgacca ggatgcaaca taacacttaa 60  
 ttccgggaaa gttttaaccg cgcctaacag tgttcataac atgggctata aaattaacaa 120  
 cctgggtgagg taattaatac ccatagagca gttcaaggcc agcggaatag gcagacgacg 180  
 cgaggcagga gatcatcaag attgaggaac gcataatatc cacatgaaca caacataacc 240  
 ggatacatag ggaatataaa gggagccaac gaatacatta ataaccgccc tcacttgata 300  
 ttaactgaca gctgcgactt gcttacgcat aattctactg cccatacaaa tagagaagcc 360  
 atactgacgt tatcgatca 378

<210> 11943  
 <211> 575  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136f01a1  
 <400> 11943

gaagtacgtt taccgacata aggaaactct ctctcttttt cgccagtttt ggactttgat 60  
 ccccgcaaa tattgtgtaa tcagactagt cactaatctc tttgggtgac aataatagtc 120  
 aaaataccag tgattgttgc acagaaaatt tgcccatgta tttatacctc agcccaccat 180  
 gaaattaggt aacaaactgt gcattttatg gtacctgcaa ttggttggtt tactatttcc 240  
 agctgacttt tgtatttggt ctttgctttg aaatgggttg gactagtata tatttggttg 300  
 gccatctggg gtaacaagat tgtgacacct gaaatgggga tcactgtata catatattat 360  
 aaaatttttt aggccgtggt tgtcagttct agttgagggt cgattgtttc ttgaccaat 420  
 tgttcagtgt ggggttaagga tatgttcttt ctagttcttt agaagccata ataataaac 480  
 tatgctaata agtggctctt cctatgattc acttagtggt aaatgggttg tgttttatga 540



tccatctcct tagttttaga ttctaacctaa actaa

575

<210> 11944  
 <211> 98  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220136f01d1  
 <400> 11944

ctaaaacgta aaaattcaac aacccaaggt tttctaacct gaaagcagga catcagacaa 60

acagggggag gctttgaaac ggaccgacgg ggctgaaa 98

<210> 11945  
 <211> 469  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmfl02220136f02a1  
 <400> 11945

gattagttaa caagttccca ttttaggggt tttctctctc tgnctctctg actcttgtct 60

tctgcacaca accacatgcc ctgggggggaa atccccaata atggacgaag gtgagggagg 120

cgatcccatg gatcagttcc accgtaacga ggctatatcc gctgtagctg acgacggttt 180

cttgggagcag gaggacgacg attacgagga tctttacaac gatgttaatg tcggcgaagg 240

gtttcttcaa tcgttgcgga agaacgagga ttcnggggtt tcggaacgac gtcgtcgagg 300

acaaaaagcc cgtgcagcag cctgatcaag atcccgttgt cgggggtttcg ataccgggtg 360

tcagtgggtg ccgtggaagt ggaattgtgg aaagcaaggt ttctgggaat gttgatgggt 420

tacagaatca agggtttaga aggggttatt ctggtggagg aggtggatc 469

<210> 11946  
 <211> 483  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220136f02d1  
 <400> 11946



<400> 11948

agaaaaaata atggcaattg gctttcagtc ttctctcaca ctcttctctc tattttcggt 60  
 tccctgactc acttttgctt ttgccctat ccttcccaga tttccttctt cagcagttag 120  
 tgcagagctg aagcaacgct cacattcttc cccaaaatgg gctttacaga acaaaattct 180  
 tcacccagat actggatcac ttcaatttca atccccaaag caatcacact tttcaacaaa 240  
 ggtatctcat caacgatacc ttttggggtg gtgccaagaa caatgctcca atctttgtct 300  
 aactggcaa tgaagggaac atagaatggt tcacacaaaa cacgggcttt atgttcgaaa 360  
 atgctccttc ttttcaagcc cttttgggtt tcatcgagca tagattttat ggaaaatcaa 420  
 taccatttgg gggaaacaag acggttgc atgcaaatac tagcacactt gggtatctca 480  
 gctcaacaca ggcattagct gattatgccg ctctcatcat tgatctgaag aagaatttgt 540  
 cagccactga ttc 553

<210> 11949

<211> 190

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136f04a1

<400> 11949

cgggattgtt cacaccaaca tttttactgt ctgttgagga gcaggcgcgc gcgcggggac 60  
 gaggaagcag ggaaagcaac gaacaacccc agtcgaaagc gacggggatc ctggacgtct 120  
 ctggacggct aaggggcaac cagatcggat caacagcctg gtgagtgaac tacacacagc 180  
 acggaatcca 190

<210> 11950

<211> 224

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136f05a1

<400> 11950

cggaattgta cacaccaaag tttttactgt ctgaggaggg gcaaccgcgc cctcaggcat 60  
 ggggaagcat gatgagcacc gaaccaacac agtggaaaat gagggggatc ctgcacgtct 120



<210> 11953  
 <211> 486  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136f08a1

<400> 11953

gataaaccgg gctgctagct gctatagaga gtcgttcgca cgcgaaacagc gcacactgaa 60  
 caccggccga ccttttagaac ttacaattta agaaaccaa acctcctaaa caccaaaggg 120  
 gcaaacaaaa aaccgggagc gacattttgg agcaaacgaa cccgagcaac aaaaccccgc 180  
 ccgacaacgc tctaacaagg ccaacaaagc aaggcttgca aaaaaaaca aagcaaacct 240  
 aaccaccaag aagcaccagg gcaagcacgc atgggggcat gcctaccaac attaaaaaaa 300  
 aatggaggaa gaaaaaaaa accaacagca acaacaatta agggtaacca acatggctaa 360  
 caaggccaac caactatgca cgcaaaggca ccggaaatcc caggcaaacc accagccaga 420  
 gcgccacccc tgggcatcat gaggagaccc catgagaagg ccgccagat gggggaacct 480  
 gaaggg 486

<210> 11954  
 <211> 585  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136f09a1

<400> 11954

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 cggtcgagct ttgttttttt ttttttaatt acagatagcc tcctttatcg ataataaaaa 120  
 tgtcatgttc acaggggaga catttataat cctttatcag gttgcctacc cttacacttt 180  
 ggaacctttc aaatcatcaa tcacagcttg ttttttgatg atgcaacaat cgaaccata 240  
 ctttgatggt ttgagatctc aaaccacaaa gccatgagtg caagtgcac atctcgttca 300  
 ataaaaacta gataactaat aaagtatagt ttgtagtaat aaataaataa gcatactctt 360  
 ttaaatgaat ctatacgtct ggacgctcat tctgatcaaa aatacgatta tggcaagtta 420  
 ggtcgcaagg gtaggcacaa tctatctcac ggaagggcct tcgatcataa aaccaatcac 480

ccactgcctt tgcaattgat gtcttggcca ccactgggga gtcatttctc agccatgtct 540  
cttgaattcc aaattggcaa tgtgcatagc aaccatctat aaaat 585

<210> 11955  
<211> 401  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220136f10a1  
  
<400> 11955

gatgaatata aaatggacta aaaagcggcc gtcctgagaa ctctctagga aaaaacgacc 60  
ctgtgaggca accattgaag caattccgcg gaatcatggc ggttacacac agagttacaa 120  
ccgactacaa atggaataac ttgagcgcct ggggtggcgcc ggaccttctc ttacccgata 180  
tcaacttgaa ctctgcatga gcatctatcg aacagatact atgatcaaca cggacgggaa 240  
agactctcgt caaagcacta gaactgggtat agcagcttat gatgacgagg gacatgccac 300  
agggaccggg aatatgcaga gtgcagtagc ccatatgatg actgccggta gcggtctcagg 360  
tggacattct atcgcatgga gcactttcca attaggatgg a 401

<210> 11956  
<211> 461  
<212> DNA  
<213> Glycine max  
  
<223> Clone ID: jC-gmf102220136f11a1  
  
<400> 11956

gacacagcgg gtgctaggac tatgacgaag ttcgcaggca gacagagcac actaaacggc 60  
ggtcgagctt tgttgactc gcttttatac agcaatcctc ataaaccgag gaaaaaaaaa 120  
gaggaccag ggagcaattt gaaggaaaag accgcggaga cagccataac gaagcaaac 180  
aggaaagccc gaggggcaac acacaaacag ccaaaccgga aaccggagaa tcaacaacac 240  
caagaaagag aaagcgacgc cgggcacgac aagaagaaca cccaataaag agaggaacag 300  
acccgaacag gagaccacg agaacgcaa cggaacgaga gcaccgaggc aaagccaaag 360  
gtgccaagac aactggaccg ggtaaagcag ggacaccgaa aaggccaagt caagacacta 420  
agactacagc tattgacaac ccaagaacgg caaccgcaac a 461

<210> 11957  
 <211> 136  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136f12a1

<400> 11957

ttaaaaaaca cactttataa ccaaacacac ctcatggaca gcaaccaaat ccggccattc 60  
 accgcggagg acttctctca ctctacagc ctatacgaag acacagactc taacaacagt 120  
 ctgaacaatc acaaca 136

<210> 11958  
 <211> 611  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136g01a1

<400> 11958

tggtgtatct aattcgatga ccctatgccg cgtacgtagc tcggattcgt cagtacaaac 60  
 tcagtttcca attcaccata ttacattttt tgatctagat tggcaaacia agatggttca 120  
 ctccaacatc atgcttccaa tgtcccccaa actctctctc ccggatcata acattccaat 180  
 cccaactttg caactcccc ttcgcaaaaa cgacatcacc gcagcgtcgt ctcttatctg 240  
 cgctgcatac gacaactacc ttcgtctccc tgagctcaga gccctctggg cctccaagga 300  
 cttccccaat tgggccaacg agcccatctt aaagcccgcc ttacacgccc tcgaaatcac 360  
 cttccgctta ctcgcaaccg ttttctccga cccgagaccg tacatcaaca aacgcgagtg 420  
 gacccgacgc gtcgagtctc tcgccacggc ccaaattccag atcatagcca tgttatgcga 480  
 agacgaagaa gaaaaccccg agacacgtgg caaggcaccg gtgactgaca ttaacggctt 540  
 taccggtcaa agcagaagct acagcgagga aagcctgctc ccgcgcctcg ccacgtggca 600  
 gaaatccaag g 611

<210> 11959  
 <211> 364  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136g01d1

<400> 11959

gaaagagaac gacacgtcaa aaacaataac gggcagcacc cacaacggga accggcgcgcg 60  
 tggaaacccc cgtgggaaac caaacctccc aaaccaagac ggaccaaccg aagaagcagg 120  
 ggagaccacc ggggcacgga gacccccaaa ctcccgaacc gaccgaaacc accaagccca 180  
 gcaacaaacc ccacagcaaa gagaccaaaa ccaaaaaacc gaaacaggac gaagaccccg 240  
 cagcgagaaa cgagccgaac acgggagaac aggcaacgca gcagacgaag aaggcaggcc 300  
 ccgcgaaaaa aagcactcaa aagcaacagg ccgaaggaga agcgagaccc aacgaaagcg 360  
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<210> 11960

<211> 414

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220136g02a1

<400> 11960

ggaggcagcg aagaggcggt gttagtaatt taatttgcatt tattgaattg aattcctctg 60  
 ttctattcga ttccatgcga gacagagaca gaagaaaaga ataaattata aaagcagcag 120  
 caaagagtct tgatcttgat ctggtggcaa acgatggcgt ttcgtggtct cgggtgtgtg 180  
 ttggtgtgtg tgtttgtgat tggcgcgggc gccgacgatg ccaaacgcga cgacgacagg 240  
 gctcccaagt cggaatcctg caataacccc ttccaactgg tgaagggtgga gaactgggtg 300  
 gatggtgagg aagggcatat ntataatggc gtcagtgcga gatttgggtc tgtgttgccg 360  
 gagaaacctg acacagtggg gaaactccag caatattcgc tgatccctta gact 414

<210> 11961

<211> 499

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136g02d1

<400> 11961

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tgatgagaac gattgacgag gagcagcgag tgtataggga cgggggaatc gtggttgaac 120  
 atgataaaat caaagcaatc ggacaatctg ctgatacctt tgcggagttt tctgatgtcg 180  
 ccgacagtat tgttgatctg agcggacata tcttactccc aggatttatt aacacccacg 240  
 ttcatagctc ccaacaaatg gccagaggca tagcagacga tgtggattta atgacctggc 300  
 tgcagtagcg catctggcct tacgaatcga acatgagcga acaggattcg tacctctcta 360  
 ctttgctttg tgggattgaa ctcatcact ccggtgtaac ctgttttgcg gaagctgggg 420  
 gccagcatgt ttctgggatg gctagagcag ttggcttact gggtttgcg gcttgcttaa 480  
 cccaatcaac catggactc 499

<210> 11962  
 <211> 345  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136g03a1  
 <400> 11962

cgccgagtga ctgacacgtc ttttaccctt gttcttcact tgcacttgat gctaaagagc 60  
 cttagtagat tataccaaga ggaatgcact tgcgacttgt gtctttcacc aatggcgctg 120  
 actctagatc tatacgaggg tggagctggt ggagtcgctg tcatcacgat gggcatacca 180  
 cccaagaatg ctggagacaa tacaactagc atgggggaga caaacagatc agatgatgca 240  
 tctaggagga gtgatctgag aacgctatgg gagactgtga aaggaaggac attatctggt 300  
 ggatttgata tcagtgatat gcagcaggtg caccggacta aggac 345

<210> 11963  
 <211> 620  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220136g03d1  
 <400> 11963

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 agttagcaga aacatgctgg agaattctca ggctcctccg ccaacggaat cggccccagt 120

ggtgaagcgc tatgtcctc ccaaccagaa ggaaccgttc tgccaacagg cgcaaatacat 180  
 ctgatcggct tgatcggaca aacagtatcg ggaatgactt agaaaagaat caagttgctt 240  
 attcaagaag tgttcacatt ccagatcacg gagatgctgg tagcagtaat cttcttaatg 300  
 agaatcacta ttcaagatta atagcttttag aaggggtagt gtancctgca ncctgcccag 360  
 ctgcttaatg atcgttggac agctgcacta caatcctaca ataatcccaa agattcctct 420  
 gaaaagccag ttatgtattc gagtgggaca tcaggatgga ctccgttcag acctccttaa 480  
 caggacttgc ttggagaact tgcgaggcaa atgcacagtg cttattctag gtttaccaca 540  
 tgatggttgg cttggattgt ctaattaagc ctttggatga tcgtggattt gctgaatgct 600  
 ttatgaacac tttgatgctc 620

<210> 11964  
 <211> 591  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136g04a1  
 <400> 11964

taaaattaag ccaacagtgt tttttggatt tttgggacaa ggaagaactt ttactaaaga 60  
 agtgattgag gcaatggctt ctattaacaa gagacctatt attctttctc tttccaaccc 120  
 tacgtcacag tcagaatgca ctgctgaaga agcttacaag tggagccagg gacgtgccat 180  
 ttttgcaagt gggagtccat ttccccctgt tgagtacgag ggcaaagtgt ttgtgcctgg 240  
 ccaggccaat aatgcataca tattccctgg atttggctctc ggtttaataa tgtctgggac 300  
 cattcgagtg catgatgacc tgcttctggc tgctctgag gctttggctg cacaagtgag 360  
 ccaagagaac tttgataagg gactcatata cccaccattc accaacaatca gaaagatttc 420  
 agcacacata gctgccaatg ttgctgctaa ggcttatgaa cttggcttgg ccactcgcct 480  
 tctcaacct aaagatttag tgaagtttgc agagagctgt atgtataccc cagcctacag 540  
 aagctaccga tgaaaagtga taataataaa taggcgcctt tttctttttc a 591

<210> 11965  
 <211> 530  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136g05a1

<400> 11965

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 cctctcttcg ctctttctct cacaggccca tttctagaac caccttctct ctctatcttc 120  
 tccttttgaa gccctccaaa tggtccaca tagagcccaa atccaggact tgccatgcc 180  
 tcgtcgccgc tttgtctgca gaggtccaag tgcccgaac tttcgacgac acggaggagg 240  
 acgacggtgc tgatggctcc accgccacca acaccgtccc caccaccaag cctaagaaag 300  
 gcaaggccgc attgcctctc aagagggaca ggacgagatc taagaggttc ttggaaattc 360  
 aacaattgag ggagcgtaag atagagtatg acttgaagac agcaatatct ttggttaaag 420  
 aaacagctaa accaagtttg tagaaacagt agaagcccat ttccgcctca acattgacct 480  
 taaatataac gatcaacaat taagagcaac agtaaactcg cctaaggga 530

<210> 11966

<211> 531

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220136g06a1

<400> 11966

caaaacccta aaccctcact ttttttttgt cttccgacga gaatggccgg cgccatcgac 60  
 atgtccctag acgacattaa gaagcggtca gccgccgccg gggcttctcg ccgccgattc 120  
 acggttggtc acaaccgggc cagaacgact ccgtaccga ttccgcaggt aaggcaacag 180  
 agcatggttg cattatttcc agaaatggtt ttggaggaga caggcgccgc taagattgaa 240  
 agtggcacca agctctatct atctaacttg gatcatggag ttaccaacga tgatatcaag 300  
 ctgctgctct cggaagaggg tgaattgaaa agctacacta ttcattatga tcagagggga 360  
 agatcaaagg gaactgcaca agttgtgttc gtgaggcatt ctgatgcttt attagccatc 420  
 aagaatata acaatatgag gcttgatgga aagccattgc acattgagct cgttggaaca 480  
 agtttggtta ctctgctga cgctcctctc tgtcaaaata acttgatggg a 531

<210> 11967

<211> 470

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136g07a1

<400> 11967

ggacagattc tcatcgaca agccaccgct tagtcagctg tgacaaagtt tcgactgaag 60  
 cggagggaca gatgctatga gaaaaagggg cgatatcaaa gccggaagag attggcagag 120  
 caacgcccc gggtgaaagg gcagtttggt cgccaagtac atgatgatca tccagtagca 180  
 gatgtgggtg gcggttcctg aaattgtttt gtttcaagtt accttcatca ttgaattaca 240  
 gtctgacttg caaatctgat ttggctttct cgacaaggat taactgtagg gtctagtttg 300  
 tctggtgaaa ttatgtttcc tcttagcggt gttagtagtg tcttctggct tgatatattg 360  
 gctaggtctt acaatgtaag attgctagta ttctgcatgt gttgggttaga agttgagatt 420  
 ttacctcgtg tatatgctat gttgatcgga tactcatata gggctactat 470

<210> 11968

<211> 463

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136g09a1

<400> 11968

agaataatgg tggtagtgct acgacgaact cgacggcata cgcctcatta aactcgggtc 60  
 gagctttgac tagaaatctt atatttgaac gatactctaa ctaactaaac caactattct 120  
 aagcggccgg atggattctc ttgggactta aatgcgacat gtcgataggg tcaccgggtc 180  
 aagatagtcc aaacctgggc tgaaaaatat ggacggtaat gaagaggacg taagagcagt 240  
 agccaacagg tacagcgaga ggcagccagt accagaccgc tgcataggct gctgactaca 300  
 gagagccaac gtcgacgcct atcgtctaac caggagagtt ggcacagcgg tctctacata 360  
 aggctggcat atcagagtcc gtggccactt tctagcccct gtacatcaca gggccgactg 420  
 cgacgggatg tggcaaatct aagagcaaag agtaccactg tgg 463

<210> 11969

<211> 172

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136g10a1

<400> 11969

gtcacatgaa cgctgatgca atataagact ctacggaaaa aaccacaaca gacgcgagac 60  
gcccttgaac gaaaggcttt tgccaaccgg accctccaaa accacaacgg acacccccga 120  
caagcagggg caccttttgt accctaaacc gaggggctaaa aagcccacct ga 172

<210> 11970

<211> 450

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136g11a1

<400> 11970

agcacgcggc tgtacactat gacgcctcgc cgcaacagcg cacggaactc ggctcgagct 60  
tgaatataaa atggtctaaa cctcgaccct ccagagaacg ctctgagaca aaacgaccct 120  
ctggggccac ctttgaacca actagaccga attatggagt catacacaca gagccacaac 180  
gtactacaaa cggcacaac agtgcaatca caccggctta tgactttcac tcacctgaaa 240  
gcaacatgga aactgcatga gctgctatcg aatgaggaca tgaaacaaca aggatggcaa 300  
aaactcactc caaataacta gacgcggcta cggggcacac gatgacgatg gacataccaa 360  
aaggactgac aaatcgcaga gtgctgtagc tcatatcatt actgccgcta tcagcacagg 420  
cgatcaatct aatgcttga gcactaacca 450

<210> 11971

<211> 131

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136g12a1

<400> 11971

cgcaaaagta caccttcaac taactaacgc ctcttgaacc agatccgcgc tatcagtcaa 60  
gcaggggcat ccttttgaac gcccaaagc catggaaaac gatggagctg ctggccgccca 120  
ccggaggggac a 131

<210> 11972

<211> 528  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136h01a1

<400> 11972

attctttgaa gggtgaaaaa ccttgatcat gaattgtatc attaatcttc aaccatggcc 60  
 acacccttgg cctaccaaga gcaccttccg gcggcaccca gttggctgaa caaaggtgac 120  
 aacgcattggc agttaacagc agccaccctc gttggctctc aaagcatgcc ggggtctcgtg 180  
 atcctctacg caagcatagt gaagaagaaa tgggcagtga attcagcttt catggctctc 240  
 tatgcctttg cagcagttct aatatgttgg gtgcttgtgt gttaccgcat ggcctttgga 300  
 gaagaacttt tacccttctg gggtaagggt gctccagcac taggccagaa gttcctcaca 360  
 aaacgagccg tagtcaatga aaccatccac cactttcata atggcaactgt tgaatcccct 420  
 ccagaagaac ccttttacct tatggcctca cttgtgtatt tccaattcac ttttgctgct 480  
 attaccctta ttttgttggc tggctctgtc cttcgccgaa tgaacatc 528

<210> 11973  
 <211> 578  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136h01d1

<400> 11973

gtttagtact caatgtcggc catccttacc ctgatgagcc tcatacttta tatactgtca 60  
 gtctgggctc ttgtagtatc catatcagca gacacatcat ccatttcaca atcccaatcc 120  
 ctcagccttg gaagaacat cgtttgtaca catgagcctc agaacctgga ttcttcaatc 180  
 attgaaatcc acacagacgc tacctcggga tttgggtcac gaatattccg tctcaaaaca 240  
 ttgttcgggt cgcagactgt ggcaacccaa ttaacgactc ctttgccatc ttgagcctaa 300  
 acagctctgg ccatttggac cttacacaca acaacactgt tgcttgctcc acatgttctc 360  
 taagagaaac acagaatgca gtggcctagc tcttggattc tgggcaatcc gtgataacgg 420  
 acgaaaacga agtgattcaa gaggcataac tgcggcacag ttttgattat ctttctagta 480  
 caaggttatc aggaatgaag attggatggc acctcataag agatctcagt attcacccta 540

cagcttgtaa gagtgatgat gatccaaccg cgggagac

578

<210> 11974  
<211> 549  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220136h02a1

<400> 11974

gaaaggagag ggtccagcgg tgttggtcct cctcggcttc cctgagctct ggtactcatg 60  
gcgccaccag attctctctc tcagctccct cggctaccgc gccgtcgtc ccgatctccg 120  
tggctacggg gacaccgagg caccaccttc aatagacagc tacacttgct ttcacatagt 180  
gggtgatctc gttgcgctta tagactctct ggggtgtccaa caagtgttcc ttgtgggtca 240  
tgactgggga gccctcatgg gttggtatct gtgcatgttt cgccttgaga aggtgaaggc 300  
ctacgtctgc ctcaagtgtc ctttcatccc cagaaacccc aacgtcagaa ccgtagatgg 360  
cttgctgtgt atgtatggag aagactatta catctccaga tttcagaaac caggggaaat 420  
ggaggctcag atggctgaag ttggcactga gtatgttctc aaaaacctcc ttacaactcg 480  
caaaactggt cctccgacct ttccaaggg agagtacgga actggattaa tctcaatatg 540  
accgatatc 549

<210> 11975  
<211> 577  
<212> DNA  
<213> Glycine max

<223> Clone ID: jC-gmf102220136h02d1

<400> 11975

gtggctgctt gtgtggaaac gaaggctacc ataatcaacc cttctcaaac atttcttgat 60  
ttgttgagga aggggtgttg tggctgctcg cgtggaaacg aaggctacca ctgcccttct 120  
caaacaaatc aagaaatgtc tcagtctcag aaacattgtg acagcctcag cctcaccaac 180  
tacactgatt tggacacgtc atcatcggac gacattgatc agaatagcac tggcggcgga 240  
ctcaaggaca atgactccat ggagaagagg agaaagaggg tgagtggaag aagttggaag 300  
gtgaagataa aggacttcat tgactcacag atgaggaagc tgggtggagaa gcatgaggag 360

tggttgata aactcacaaa gacactggaa cagaaggaga cggagagggt gttaagagaa 420  
 gaagagtgga agagacacga agctgcaagg ttggagaggg aacacacatt ttggtgcaa 480  
 gagaaagcat ggattgcagc aagggatgct gctctatgga ggctttgcac aaattaaccg 540  
 ggaacgggat catatagagt actcattcta ctgatgg 577

<210> 11976  
 <211> 268  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220136h03a1

<400> 11976

ctaaagtaag ccaacactgt ttttgggttt attgccacac cgaaaaacct ctctacaca 60  
 agtgaatgat gcatcggtta ttatatacaa gagacctcta attaccttta tctcacaccc 120  
 tacgttacag tgcgaatgca ctgcgctaga tgcttacagc tggagacagc gaccaccac 180  
 ttgcgcttgc ggacgtacat cctgatacga cgagctctaa gaccgagagg gagggcctgc 240  
 tctatgcact aaggcatata gatgtgcc 268

<210> 11977  
 <211> 133  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220136h03d1

<400> 11977

cttaccagtt gacgtcttgc taaccaaagc ctctggacc gcacgcccga aggcacgcat 60  
 gcaggggcag catttgcaac ggcccaacgc cgtcgaaaac gacggagccc cttgccatgc 120  
 ccggaaggca tgg 133

<210> 11978  
 <211> 513  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220136h04a1

<400> 11978



cttttaatta gaaaactatc attttgtttt catatctaaa agttgttttc actagtttct 60  
 atacaaatct ttgaaaactg gaaataaatt gaaaacaagg taacaatttt ataattaaaa 120  
 gtaaaaacca aaaaacattt tgtcaaagta aacggaccct acgctttaaa cttgtttggt 180  
 ctgttttgaa gtctagccat agtattagta ggtccttcat ttctcttgta catgcctaga 240  
 gggtgctgtt ttatcaaac gctgaaaaat attactcttt tgattgtgtt ctatttagtc 300  
 ttctcgtaga agaattcaga attgcagcct gatacagtcg caacaagctg catataatgg 360  
 ttcccaaaga tgaagatgca agactcttgt ttttaaccgt ttttgtttg ttttgttaaa 420  
 gtagaatttg aatatagttt ttgtttgatt atggtaacta tgtatatgaa tttcatacat 480  
 tgaaaactga tgccttttag caaacacat tcg 513

<210> 11979  
 <211> 179  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220136h05a1  
 <400> 11979

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 ctgtccagga gtgacaccac cacacgggaa agaagcacac actctggaga cccatgtttt 120  
 gcggcatatc gcaattcggc cagatcgagt cgctaacaga ttttataggt agggcaaca 179

<210> 11980  
 <211> 533  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220136h06a1  
 <400> 11980

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 aaatccgtgg atctggacct aacaatcgtg tcggcgaagc acctgaagaa cgtgaactgg 120  
 aagaacggca atctgaaacc ctacgtggtt ntctgggtgg acccgagcg ggcctcgcc 180  
 acgaaatccg acgactccgg caacacctcc cccgtctgga acgagcggtt cgccctccct 240  
 ctccctctcc cctccacga ctcttctctc accctcgaga tctttcactc caaacctccc 300

gacaccccca aaccctcgt ggccaccctg cgccttcccc tcaaagacct acacgacctg 360  
 cacgactcca cgcgctctcg caagtttccc ctctatggcc cctgtggccg cccgcacggc 420  
 aagatccacc tcaaactcgg tctcctcggc cgcccccaat tcgattacgc ctgccccaac 480  
 cctgacccta accctaacc tagtctaata ttcgtctgct acagaggata cac 533

<210> 11981  
 <211> 541  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136h07a1

<400> 11981

gggtacggcg tttgtataag ctttaagacgg cctctggccc ccatcccca gctcggaatc 60  
 cggttcaggt ccaaggtact catgagcctg acctgtcttt tctacacttg tgggtggagac 120  
 tctaatagctt gcttacacta ctagtaaatac tgtgacatat aataagatac acctcttaac 180  
 tatgagggat acacctgcta aattcatacc accattctcg gcgacccact taccagtgct 240  
 taaagaactg gaatcacgga cgatgataac accatgtatc atggcatggc gtagcatgct 300  
 gcgaaatggg agccccctgat acccgatgac gtatgataaa gctgcttagc tgggaccctt 360  
 agacacatag cgcattgctt atgggattcc atgtatgaag acttaggctc gatccaatag 420  
 cttggacaca ttgatctttc caacaacttc ctgaatggct ctctaacc aa cactatcttg 480  
 aactcttctt aactataagc tcttacccta tgaacaatg ctatctccgg tgaactacct 540  
 c 541

<210> 11982  
 <211> 435  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220136h08a1

<400> 11982

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 cgggtcgagc taccacattc accgttaggc tcccaaagcc ctgctcgacc cgtgcagcat 120  
 ccaactgctgc agcgtgggta gacatgtcac aaatgctggg aaaccgatc accgcagtgg 180

cgccacaagg ccaactccat ctgctacgag tcttgccctcc ttcaagactg tggctcttgc 240  
 ctccaaagcg aacgctacac caacacctac aaaaaaagct gctgctgctg ctcttgccaa 300  
 tgacgagctt gccaaagtgg atggccctga cagaaagatc tacttgctg agggtcacta 360  
 ggaccgatcc gaaaccccag agtacttgac cggagaagtc cctggagact atggttatga 420  
 cccattcggg cttag 435

<210> 11983  
 <211> 194  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220136h09a1

<400> 11983

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 cgagggttaa aatgatgggg atccaaactg gaacctcagt acgatcaaag atagggtaca 120  
 cctgactggg gacacctctt gcagggtcaa actctaacgg cacaacaaca taaccatgga 180  
 tctgaagctg cctt 194

<210> 11984  
 <211> 548  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220136h10a1

<400> 11984

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 aggctgaag gattcactcc ggacttaatt acgttatatt gatagggtca ccgtttcgag 120  
 atattctaaa cttgtactga caaatacgga gggaaaagat taggacgtac gagttggagc 180  
 caactggtac ggagagaggc agccaatacg gaccgttgct caagctaaag actacagaga 240  
 gccaccgtcg ggcctctctc tcgaaccggg agagttgcca tcgtgggtctt tctatagggc 300  
 tggcatagca tagttcgtgg ccactttctt gttcctctac atcacagtgc tgactgtgat 360  
 ggggtgtgtc aaatctaaga gcaagtgtc cactgtgggt atccaaggca ttgcttgggc 420  
 tactggggga atgatctttg ctctagtgtg ttccactgct ggaatctcat ggggtcatat 480

taaccagca ttgacgttcg ggctgttctt gcacgcaagc tttttctgac atgggcactt 540

tttacata 548

<210> 11985

<211> 420

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136h11a1

<400> 11985

gatccacggg tggctagcta cataagacga ctcaggcgga acagcgcgct cggaaaacgg 60

gtcgagcgtg acaggtaaacc ctcagaacca agcctcaaaa acacgagcag agccgaagat 120

caccatgggg gaggcaaacg aaagaaccca cacggcaagg ccgaagaaga gccacaggc 180

ccaggggaagc ccacgccgga accagacacc gacgaacccc ccccgatga gaaagaagaa 240

gccagacctg aagccaacgg ggagaaaacc aaggaaccgg gacctaaaaa gggagccaga 300

ccacgcgacc cagcaacaca tgctgccaac gaggagaacg acaaagacgc aagtgccacg 360

cacaaagaca caaccgctgc gagccaacac gcgatagcaa agcacagcga ggagaaccac 420

<210> 11986

<211> 370

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmfl02220136h12a1

<400> 11986

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caagggggac actctgtacc tctactgacgc cgttgacagc gatggagctc ctggactcgc 120

cggtagcatg gccagagcta cttgacggac cgtcaatcct gacagacgta ccggaactag 180

cacggacgcc gcccgacacc acggcaccgg acaatctagc ctcacatca cgggcgcgcg 240

cgagaactgt acagcgaatg taccaccggc gtggactccc acgctgctgc ctgacgatca 300

ctataccgct ggcgctggta tcaccatcat agtcacctgt tccggtactg aggacagtgc 360

gaaagctgct 370

<210> 11987  
 <211> 139  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220137a02a1

<400> 11987

ctctaagtct agctaatacc aaatttgcaa tactcaagaa ggaccaaccc aaaagacagg 60

gcgggtcata atcaagaacc acccccctgc atacagcggc acgacccacc caacacgggt 120

aaacaacaac gaggaaagc 139

<210> 11988  
 <211> 139  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220137a03a1

<400> 11988

cccaaccgca gccacaacc aaacctgcaa tacccaacaa agaccacccc aaaagacagg 60

acagggcaca atccagaacc acccccacgc agccagcggc aagacacagc caacacaagg 120

caacaacaac gaggaaggc 139

<210> 11989  
 <211> 142  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220137a04a1

<400> 11989

ctcaaagaca acacaaaagc gaaccgcaa tccctttcaa cgagcacacc acacgccacc 60

acggggcaca attaagaacg acgccaccgc agagacaggg acgacccgaa cgacacagct 120

caacaacagc aaggacggca cg 142

<210> 11990  
 <211> 139  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmfl02220137a06a1

<400> 11990

cccaaacaca agccaaaacc aacctttcat tacccaacaa agaccacccc acaagacagg 60  
acagggcata atccagaccc accgcacagc agacacaggg acgaccccc caacacagct 120  
caacaacagc taggaaggc 139

<210> 11991

<211> 656

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137a07a1

<400> 11991

ngcactctcg ctgccactcg agtgctattc acatcatatg catctccacc cccacctcgg 60  
cattcaactc gagttcaact cggctgctgc tctattgcac ttctctata tcattgatgg 120  
atattaattt aatgatcttg tgatgggtcac catgggtccta aggtatggaa tgcaggccaa 180  
gttatctcaa atggctttcc ttttgcctt gatttgacga atcagataat ttcaagttat 240  
ctcaaagtac ctttactgtt ctaggctagc cagggttctc agacctagaa gattgcagag 300  
aagggtccatt catgttcttg atgctcgctc tatgggtgaa gttagcagga aacaatccaa 360  
cttgtgtagc atcatcttgg atggcctaga catgtacagg gaaagtcatg gaagacacta 420  
gtaaagaaaa ctgattgca tggttttcat cttggtgaaa aggagcacag ggagatcaag 480  
aagtacttga gcaaaagtcg ttaaaggagg ttaagggaga tctcatggta aataatattc 540  
ctaaagcttt agttcttaac caagttgaac ggcatacaagt catatgatct atgtagccga 600  
ctacgcttaa tggaacaaga ctctgctgat gctattgtct taataattac tccatg 656

<210> 11992

<211> 651

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137a08a1

<400> 11992

caactctgca gtttttgctt tatcaaaaac tgcactatta ggaaataaaa cagacttttt 60

actaagggtga tataaccaga aatgctgaca aatcaatgag ggtgaccgac aaatctagtc 120  
 aacataagaa atgctgctgc tattcgctta ctcaggcaaa aacaaaaagt cacataacaa 180  
 ccctgcaaag aacaggcaat cgacatgaga actattatag atatattggg gaatgcgaac 240  
 atggcaagac tgtgtttgcg ctttcttact aacatcatcc aaaactgcta ctggagacat 300  
 tatcactggt agaccacctt ctgaaggcat cgggtactaa atttctacca gccaaaaacc 360  
 caaaccttga tcttaacatt gtcattcggt tgttattatt acttgaagaa gcctcagcct 420  
 cggccacggt agtttggttg atgatgcttg gtagaaactc taccgtatta tactgagcta 480  
 ccccatcccc atcacttgca ccccatgca aagcttcaaa ttcactatca tcataattaa 540  
 acgcataga gaccctctgt tctctcacac actctacgcc ttaccaggt atcctgttgc 600  
 actacttgag cttaaagctta ccaaattggg acaccccgaa gctagagccc c 651

<210> 11993  
 <211> 233  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220137a08d1

<400> 11993

ttgttttttt tttttaaaaa aaacaaacca ttattaaagt ttttggaata aaaaacccaa 60  
 accgggggaa aaaaggggaa caaaaaaccg cgacacccca acaaaaaaaaa acaaaaaaaaa 120  
 ccaaaaagca gggggagggc aaaaaaacg aaaaacgaca ccaaacccgc caaaaacaca 180  
 cgcacaaaca cccaccagac ggcaagagca ccaaacaca ggcaccaacc cac 233

<210> 11994  
 <211> 597  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220137a09a1

<400> 11994

gttgaagggtt accaatcgat caatgatatg ttaatttcta aagccacggg tccatggggg 60  
 aacagaatta ctttcttgca tgttccaata ccgaaattaa atgaaacaag aactacaaac 120  
 cctcttgaat ttatttggga cacaccttta catattcaag aggaagaaac aatctctagg 180

agttgtactc accgggacac ttttgaagat agagggcaaa ttgaggggac aagaggcagt 240  
 agctaaacgc attcgtggca cattgacaaa atcaagtga gtgatttcaa acttggtggtg 300  
 accaatacaa caaatggctt tagctaacca tcctgtgaaa ggcttgtatt tcacattggc 360  
 cgggtggacct gaaagtctag tcatttcagt tatgagctat atgggagtc taagtgttac 420  
 cctcaaaacg gaaaaagact tcatagacga acataaattg aagttgtgca tgcaaagtgc 480  
 atttgagata attctccaag cagctatgga aattcctcag gaaaccaaac cttagtattt 540  
 ggtttggatg attggaacag cttattacga anattagaga gagagagaga tatggag 597

<210> 11995  
 <211> 126  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220137a09d1  
 <400> 11995

ccgcaatact ttgtgaaaaa aaacacccca ttataacact ttttgaaaaa aaaaaccac 60  
 cccaggggaa aaaggggcaa aaaaaagcg acacaacccc caaaaaacaa gcaacaaaaa 120  
 ccaaac 126

<210> 11996  
 <211> 607  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220137a10a1  
 <400> 11996

tcttcttctg ctcaaacctc ttcgttcctt tgattttttc catttcttcc aaaatggcca 60  
 aagaccaggt tcgcgttctc gtcactggag ccgcagggca aattggatat gctcttgtcc 120  
 ctatgattgc taggggagtg atgctgggtt cctgaccagc ccgtgatcct ccacatgctt 180  
 gacattcctc cagcagcaga gtcgttgaat ggggttaaaa tggaattggt ggatgctgca 240  
 ttccctcttc ttaaagggtg tgttgctaca accgatgtgg ttgaggcatg cactggggtc 300  
 aatattgcag tgatggttgg tggattccct agaaaagaag gtatggagag gaaggatgtg 360  
 atgactaaga acgtctccat ttacaagtcc caggcttctg cccttgaaaa gcatgctgct 420



gccaactgca aggttcttgt tgttgctaac ccagcaaaca ccaatgcatt gatcttgaaa 480  
 gaatctgctc catctattcc cgagaaaaac atgtcttgcg tgactagatt ggaccacact 540  
 agggcactgg gccaaatttc tgagagactg aacattcagg attctgatgt aaagaatgtc 600  
 attatct 607

<210> 11997  
 <211> 467  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220137a10d1

<400> 11997

aacnaacacc ttatatTTTT tattaggaaa aaaagcccc ttttattaga ataaggatca 60  
 ttttcagttc aattaaacac ccctattctt acaaaagggg aaaaaaagaa aacaatataa 120  
 agtttataac ccaaaaatta gttaatcttt ttctaaagag aaaaaaatt gacaccccca 180  
 agagccttgg aacgggtttt ccttgggtct actaccgcc tttgactttt ccaagcccaa 240  
 ggggtctatt tacatttcta ccaccaacaa aaacgggtat caccattcac caccactgg 300  
 tgaataaaat actattctcc caccactctc acagtagcag ggagccactc ttgggagccc 360  
 cggcgatcgg agtaaccatc atttttgagc ctaaacagca tggaagagtc atggccacgg 420  
 gggcttgaaa taaaattctt tttcagtggg gggaacaag gaaccaa 467

<210> 11998  
 <211> 379  
 <212> DNA  
 <213> Glycine max

<223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220137a11d1

<400> 11998

aagaagagac gtttattttt tttttgcacc accaggangg gccaagggg aggggggtgc 60  
 atttaattat taaaaagctg taggattttt cctaccatta agggcaccta aattttggtc 120  
 aaagggaac atacaatgtt cgggtgaaca gaaaatttcc caaaactggg aatttaaacy 180  
 ccgaaactgg ccggaataa accggaacca aaatataggc cggcaactta tcactggctg 240

ggactaacia aaaaaaagcc ttttttgccc gaaaaagtga cttaatgaaa agatcactca 300  
 taccattagg atgagcaaac atgggaccag aaccttgggg ttcattgatag agaaccagg 360  
 gaagcttttg cgctttgta 379

<210> 11999  
 <211> 397  
 <212> DNA  
 <213> Glycine max  
 <223> unsure at all n locations  
 <223> Clone ID: jC-gmf102220137a12d1  
 <400> 11999

attaaagggt tattggaaan aancccccca gagcgacag tgggaagact cactcaagaa 60  
 ncagcccact cccagacatt cacaacaaca aacaactgga ataaaaagaa catatacgaa 120  
 cgaaatttgt cagcgggcaa aacgagaatt cacaatttca caccatctgg acccaaatac 180  
 cgcggtcttg aacttcttga tggaccacaa acagcggata gaaacccggg ggcgcaagaa 240  
 cagcgggaagc cggcgcggtta acttcaacct cgtgcgttga ttctccaacc cactcaaata 300  
 ggggcggttg cagcaccaac agcctctgat tcatggagaa cgagtgcgtg ttaaattggcg 360  
 gcgcccgcgt ggtaacagac accgaatccc caaccaa 397

<210> 12000  
 <211> 143  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmf102220137b02a1  
 <400> 12000

ctcaaagcgt acctcaaagc gaattctgca tactcaacaa ggaccagccc aaaagacagg 60  
 gcagggcata atctagagcc accgcacagc agacacagcc acgaccagc caaaaacagg 120  
 ccaccaacca cgaggaaaac gca 143

<210> 12001  
 <211> 193  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220137b03a1

<400> 12001

gcaccaacct gcccgatatgg aggctaacga cgcgcacgca cgcgcacgca gcacggaact 60  
 cggcccgagc gcaacgaaca acagacgggc ctgcgttacc gaccaagacc agcccaccag 120  
 gcagggcagg gcacacacga gagccaacgg acagcagaca acccgacaac gggccgagac 180  
 accggaaccc acc 193

<210> 12002

<211> 150

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137b04a1

<400> 12002

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 acggggcata atccagaacc accgcacagc agacatagcc acgacccaaa caacacagct 120  
 caacaacagc taggaaggca cagaatgccc 150

<210> 12003

<211> 355

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137b05a1

<400> 12003

ctctaactct agctagtacg gaatttgcac tataacaaca agaccactcc acatgacagg 60  
 acgggggtata atccagaccc accgcacagc agacaggtgc acgaccctca tgaaacggct 120  
 caacaacagc taggaaggca cgcaccctcg tgaccgattg caacgagcca gctccaatgg 180  
 tccgccagcc tccgatgcga tgaggccgat caaaagaaca gctgacgtca atcaaaacga 240  
 tgccggcacc atctggaccg tcttaattgc ccgttccagt gggttacacgt gcttcaggct 300  
 caagaccagc gctcggcatg catctcatct actgtaacga gctatgccga cagag 355

<210> 12004

<211> 451

<212> DNA

gctgtggcaa	gtgggtaaaa	ctctctggta	tagattattt	gcctggtgat	gttgtctcca	60
taggtcgctc	ttctggtcag	aatggggagg	agaagtctgt	accagcagac	atgcttctat	120
tggtctggaag	tgtgattgtg	aatgaagctt	attctgacag	gcgagtctac	tcctcaatgg	180
gagatttcaa	tcgcgggtag	ggcgatggag	gagacattgt	ctgcaaagcg	agataaaaac	240
catgtgttat	ttggtggaac	taaaatattg	cagcacactc	cagataagag	ttttcctcta	300
aaaacacctg	atggtggctg	cttggctggt	atcttgagaa	cggggtttga	aacaagtcaa	360
ggaaagttga	tgcaacaat	cttattctct	acagaaaagg	tgactgctaa	tagctgggaa	420
agtggaattct	tcattntatt	cctggttgta	tttgccctta	ttgctgctgg	ctatgtgctc	480
gttaaggcgt	tagaagatcc	cacaggagca	agtatanact	tatctaagtt	gctcacttat	540
ggctacttct	gtgatacctn	ctgagttacc	aatnggaata	tcaatagctg	ttaatacttc	600
tctg						604

<210> 12006  
 <211> 602  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220137b08a1

<400> 12006

gctagaacgg ggcgcaagtt ggtggtggtt tcgtttaccc cattaccatt aagaaaaata 60  
 ttcatggaat tctaaatgct gtgagttggg gcgttctggt tccccttgga gtgatcatag 120  
 caaggtatat gagaactttc ccatctgcaa atccagcttg gttctatctt catgttggtt 180  
 gccaggtatc tgcttacgcc attgggggtt ctggctgggg aactggcatg aaacttgga 240  
 gcgaatcagc ggggattcaa tatagaagtc atcgctatat tggaattgcc ctcttttgct 300  
 ttgcaacact acagattttt gcattgttcc tgaagccagt gaaggatcac aagtataggt 360  
 acatctggaa catatatcac cacagcgtcg gatacagcat agttatcctg ggaatcatca 420  
 acatcttcag gggcttttagc atcttgcac ctgatcagaa atggaaatca acttacctg 480  
 cagttcttat tgcacttggt gcagttgcct tgttcttgga agtgatcaca tggattgttg 540  
 tgttgaagag aaagtcttac aagtgcacca taacctatga tggataccac aatggacaat 600  
 ct 602

<210> 12007  
 <211> 175  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220137b08d1

<400> 12007

ttggtttttt tttgtaaaaa aaacacccta ttattcgact ttttgaaaaa aaaaaccac 60  
 ccaaggggac aaaagggcga gaaaaaagcg ccacaccccc ccaaaaacaa accaaaaaca 120  
 caaaacagcc ggagagcgcc ccacaaaccc aaaaaccaga ccaaccccg ccaaa 175

<210> 12008  
 <211> 343  
 <212> DNA  
 <213> Glycine max

<223> Clone ID: jC-gmf102220137b09a1

<400> 12008

ctcacaccag gcgcacgtta gcacaaacta tcatgtccac ggcaacagca gctgccacct 60  
 cgtcctttat ggggactcgt ctctggagg ctcactccgg agcggggcga gtgcacgccc 120  
 gattcggctt cggcaagaaa aaaggctccc gccccaaaga aagcctccag gggatcgggc 180  
 cgagacaccg acagaccctt ttggtatccg ggcgccaaag cgcccgaata cctcgatggg 240  
 agtcttgtcg gagactacgg gttcgatccg attgggctag ggaagccgc ggagtacctg 300  
 cagttcgagc tggactcgtt ggaccagaac cttgcaaaaa cgt 343

<210> 12009

<211> 69

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137b09d1

<400> 12009

ttgaaatact acaggaaaaa aaaaaaacta ttcgaaaact ttttaagaac aaaaaaccac 60  
 acaaggggc 69

<210> 12010

<211> 100

<212> DNA

<213> Glycine max

<223> Clone ID: jC-gmf102220137b10a1

<400> 12010

gagccttaag gtcttgcgtt gcatgcatcc tcctttacat gaacgcgaca taaacgcaga 60  
 tcagggcagg gccatattac acaggaccgc ccggcacaca 100

<210> 12011

<211> 179

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmf102220137b10d1

<400> 12011

atacacaaca accgatagtg attgttagga aaaaaacaga gccaccacgg gccagggttt 60  
gggatcaaaa acacgcgcc tccccncccc cacaaagcaa aaccaagaaa aagcagcaga 120  
aacacaccag accgccaaaa cacaccacc aacccaaca cacacggaaa aggccagc 179

<210> 12012

<211> 365

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220137b11d1

<400> 12012

tggncnnagg nanacaaacg aancgaagat ttctatttgt ttaaaacacg aagacacca 60  
acagggcaag aggtaagaat aagaaacgag aaaaaccaa nccgctatga gacgcacact 120  
aaagacaaat tcggttatag acgaatgaat aaaaatactc ggcaaacaat ggaaagttgg 180  
ccaccacgcc ggacagatga aatggaatgc ccggccagat ggctgagcag acaaaggag 240  
cattatcgcc tgctctttgg gtcggatcca aaagagaact tgcgaaagga gcatagcctt 300  
gtatagaccg tttgttggc ccgaatggag tgacgctgca aaacatctag cttggggcga 360  
ggaaa 365

<210> 12013

<211> 517

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<223> Clone ID: jC-gmfl02220137b12d1

<400> 12013

gagagatact atcatttgtt natgaaccaa ggaaaggatg tacatataat tacaaggatg 60  
gtaatctgaa tgcaaaagtg gaaaagcctt accagaccta aaccgctctt aaatttgatc 120  
aactttcttc ctttcttctt tccaaacca ggcaattaca ttaaagcatg catatttatt 180  
ggatgcatct ctctaaaacc tcacaaccta tgacaatcca tactgaaagg cccctgaatg 240  
cctgtgagca gcaacagcta ctgcagcagc atcgacagca ccaaattgag attgtgcctg 300

cagcagtttc gcatcaatgg aagcaacagg atcattttaag tgatcgctct tcccctgcat 360  
 gctacactgc tgggatggga gtggatgttt gtcttggtgt gaaataccct tatatgtttc 420  
 tgaggtagtt tttatgttag tgggttgctg cactctatgg aaacaatgtg gagagacgaa 480  
 tngaggaagc gacccttctg tcataagcgt cttttat 517

<210> 12014  
 <211> 144  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220137c02a1  
 <400> 12014

ctcaaaggca acccagaacg aagcttccga tacccaacaa agaccaccgc accagacagg 60  
 gcggggcata atccagaacc acgccccagc agacgcgggg acgacacacc cgacacggct 120  
 caacaacagc tacgaaggca cccc 144

<210> 12015  
 <211> 152  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220137c03a1  
 <400> 12015

ctcaaaggca acccaaaacg gaactttcga tacccaacaa agaccacccc aaaagacagg 60  
 acggggcata atccagaagc aagccccagc agacacggcc acgaccaccc caacacggct 120  
 caacaacaac taggaaggca caggaagtcc ga 152

<210> 12016  
 <211> 151  
 <212> DNA  
 <213> Glycine max  
 <223> Clone ID: jC-gmfl02220137c04a1  
 <400> 12016

ctcaaagaca agccaaaacg gaacctgcaa tacacaacac agaccacccc acaagacagg 60  
 acggggcaaaa atccagaagc accgcacagc agacacagcc acgaccccga caacacagct 120